Contited Outerwear Fifthes the official publication of the national knitted outerwear association 386 park avenue south, new york 16, new york BRARY murray hill 3-7520 Sweaters * swim suits * infantswear * knit fabrics * polo shirts * gloves * headwear

Published weekly (except for a special issue in April in New York, N. Y. Subscription price \$10 per year. Entered as Second Class Matter June 27, 1947, at the Post Office at New York, N. Y. under the Act of March 3, 1879. Copyright 1960 by the National Kuitted Outerwear Association.

Vol. 29

MONDAY, OCTOBER 17, 1960

No. 42

AATCC Convention

Parley Talks Focused On Latest Developments In Dyeing Synthetics

PHILADELPHIA, Pa.—Latest developments in the dyeing and inishing of synthetic and natural fibers were described at a three-day convention of the American Association of Textile Chemists and Colorists, which returned home on October 8. The Piedmont Section of the AATCC took first honors in the intersectional tech-

nical paper contest for a presenation relating to chlorine damage to resin-treated wash-wear abrics. The Delaware Valley Section, placed second; the Rhode Island Section, third.

The Olney Medal was awarded to Arnold M. Sookne, of Harris Research Laboratories, who told the group that for ome wash-wear treatments, the ntroduction of intermolecular rosslinks is largely responsible or the improved useful properies

H. C. Haller, of American Cyanamid Co. explained the use of a set of 115 engineering harts with which a fabric engineer could predict the maximum umber of ends and picks per nch that can be woven with a iven yarn blend.

Dr. C. Eugene Coke, Hartord Fibres Co., in describing antrel polynosic staple fiber, aid important characteristics ere that it was stable, and reltively free of progressive brinkage.

Zantrel can be dyed to any hade. It has a pleasing luster nd fabrics made of Zantrel ave a "crisp, lofty, silk-like" and.

Fred Fortess, of Celanese ibers Corp., described the lonforts Reactor continuous reing machine. He said the significance of this machine is that it can apply concentrated thermal energy under conditions of controlled tension and uniform heat distribution across the width of the fabric.

L. R. Graybeal, of American Enka Corp., said the use of Enka Fiber 500 in knit goods, such as men's T-shirts is being studied.

I. H. Welch, of American Viscose discussed Avron, Avril and Avlin rayons. Avron, he said, is the strongest. Avlin is similar to regular rayon, but requires resin treatment for dimensional stability.

Corval and Topel, both cross linked rayon staples and Moynel, a high wet modulus, were discussed by R. S. Kenyon, of Courtaulds (Alabama) Inc. He said that work with both knit goods and woven fabrics showed that Moynel may be processed from start to finish as cotton. He said that shades obtained on regular rayon can be obtained with cross linked staples by increasing the amount of salt in the bath

Walter Stump, of The Chemstrand Corp., discussed the dyeing of Acrilan 16 and Acrilan 16-Acrilan 16.56 blends. Among the points he made was that in tubular knit iersey.

where heathers have been extremely popular, two specific blends have contributed great versatility to the dyeing of twotone effects from light to dark. One blend is 15 percent Acrilan 16.56-and-85 percent Acrilan 16. The other blend is the reverse percentages of these two Acrilans.

Dr. Richard Kern, of Sandoz, Ltd., described the possibility of dyeing cellulose and synthetic fibers continuously by steaming at increased pressure with saturated steam. He said that a continuous procedude can be worked easily since required steaming times are comparatively short. In spite of the fact that certain dyes give poorer yields on pressure steaming, the disadvantage is outweighed by the higher level of productivity and saving in power and labor by continuous dyeing.

Acrylic poylmers used as feltproofing agents for wool compare favorably with other treatments, Fred H. Steiger, of Rohm & Haas Co., told the Association. They also avoid undesirable effects on secondary fabric properties.

R. J. Fortune, of The Tennessee Eastman Co., division of Eastman Kodak Co. said that a reduction in dyeing temperature has removed many of the problems that have been associated with Verel.

Fortune said that piece goods made with Verel modacrylic fiber, such as knit goods, drapery and other apparel fabrics, can now be successfully wet processed, free of creases and distortion, and will retain or develop desired fabric texture.

AATT

Fiber Technology Theme Of Annual Meeting Feb. 8

"The Challenge of Modern Fiber Technology" will be the theme of the annual meeting of the American Association for Textile Technology at the Hotel Commodore, February 8. This will be the first annual meeting of the organization under its new constitution, which provides for the operation of chapters and an expanded program of activities.

Dr. Kurt J. Winter, vice president of AATT and chairman of the technical council, said the Council chose this theme because of the increasing number of new fibers and fiber modifications. He said the industry has new responsibilities for the proper use and processing and the promotion of these fibers.

Conference Objectives

The conference objectives are to help eliminate confusion in the increasingly complex fiber technology, and to clarify the responsibilities of all members of the industry.

The meeting will feature four panels, retailing, fabrication of end products (apparel, industrial, home furnishings), converting and mill operations.

Albert E. Johnson, a director of the Association and director of trade relations of the National Institute of Drycleaning, has been named general chairman of the meeting. The administrative chairman will be Erb Ditton, a former president of AATT and a textile consultant.

SPECIAL ISSUE: Annual Wool & Specialty Fibers Review



GET MORE SWEATER VOLUME

with National Worsted Yarns

Today's look of casual luxury calls for the wool sweater...the kind of sweater made possible by National's long experience in the selection, blending and spinning of the right knitting wools.

National enjoys a tradewide reputation for quality. Our warehouse is stocked with a variety of knitting yarns - such as worsted, zephyr, mohair blends...in the natural, dyed and heather mixtures put up in skeins or cones.

Our customers know they can use National's warehouse just as they would use their own. They know they can rely completely on our quality and service.

Rece

Ap Us Gove

Cash

Proce Wool

Wool

NATIONAL YARN CORP.

2735 PROSPECT AVE., CLEVELAND, OHIO MILLS: Jamestown, N. Y.; Washington, N. C.; Whiteville, N. C.

SPINNERS OF WORSTED . ZEPHYR . MOHLAN . NYLON . TURBO ORLON . SPUN-GEE . BAN-LON . YAMA . NATURA . YYBRAN "QUALITY - AT NO EXTRA COST"

TIMES

LS

loo

by

nd-

ity.

nit-

air

res

al's

1ey

ity

., Inc

Knitted Outerwear Times

Published by National Knitted Outewear Association, 386 Park Avenue South, New York 16, N. Y. MUrray IIII 3-7520. Subscription Price (including the Yearbook Edition)—\$10 per year in U. S. A. \$15 per year in Canada and foreign countries.

The Knitted Outerwear Times being the official publication of the National Knitted Outerwear Association, is exclusively devoted to the dissemination of information, the stimulation of trade, and the general improvement of the knitted outerwear industry in accordance with the Association's basic objectives as expressed in the preamble of its by-laws.

lames F. Nields, President Vice-Presidents: Ingram Bergman Israel Cohen David Reinthal Ed Kalfahs Irving Louis John Miller Irving Saltzman, Treasurer

Sidney S. Korzenik Executive Director and Counsel National Knifted Outerwear Ass'n Harold Korzenik, Counsel Edward A. Brandwein, Admin. Sec.

Harold Linsky, Secretary
New England District
Edward B. Shilis, Secretary
H. H. Cohen, Counsel
Pennyivania District
H. L. Ashworth, Secretary
Western District
Edward A. Brandwein, Secretary
Eastern District
Cleveland District
Cleveland, Ohio

Charles Reichman.....Editor trving I. Silverman...Business Mgr.

FEATURES IN THIS ISSUE

Wool Use Up in Knitwear Industry Recent Trends in U. S.	3
Apparel Grade Wool Use Government Labora-	5
tory Improving Wool's Properties Cashmere Supply, Price	7
Trends	9
Analysis of Fur and Hair Fiber Trends Processing of Wool on	9
Woolen System Wool Spinning on	10
American System Men's Wool Sweater	13
Styles	17
Woolknit Fashions	19
New Eletronic Knitting	
Machine	21
Swimwear31	-41

Wool Developments

Use Of Fiber By Knitters Shows Big Gain

By CHARLES REICHMAN, Editor

WOOL appears to be staging a strong comeback in knitwear. Not since wool went into eclipse as a major knitted outerwear raw material under competitive pressure from Orlon and other synthetic fibers, has interest in and demand for this natural protein fiber been as great as this season. This is the conclusion drawn from

a recently-completed poll of yarn spinners servicing the sweater and knitted yardgoods sections of the industry.

The survey was conducted via a written questionnaire sent to upwards of 100 yarn processors and knitting yarn sales agents in various parts of the country. Responses were received from well over 50 percent of those to whom the questionnaire had been mailed. Among the yarn producers who filled out the questionnaires were most of the industry's volume yarn suppliers.

Report Rise

Over four-fifths of the spinners responding indicated that their sales of all-wool and woolcontent varns to outerwear and fabric knitters tally higher so far this fall and winter season than the entire comparable season last year. The average gain in wool knitting yarn sales is tabulated at 22 percent. A minority of the spinners reported minute increases of two to five percent. More than half noted that their wool knitting yarn volume jumped by 30 percent or more. Five yarn suppliers racked up increases of 50 percent and one estimated that his wool yarn sales exceeded last year's by close to 100 percent.

The stepped-up commitments for wool yarns, the survey shows, is primarily a reflection of increased consumer demand for wool knitted dresses as well as wool sweaters. The new, burgeoning double knit dress vogue, the spinners believe, is more of a factor behind the increased orders for wool yarns than a wool rebound in sweaters. Yarns for the double knit garments, it was indicated, are being sold not only to integrated knitted dress producers but also to many yardgoods manufacturers. Many of the latter, as knitters of worsted jersey cloth, have always been large wool yarn users but a larger number of the knit cloth makers are relatively new wool consumers, having specialized up to now either in knit cloth of Orlon and wool blends or 100 percent cotton.

Men's & Boys Sweaters

After the knitted dress and double jersey yardgoods producers, the yarn spinners listed men's and boys' sweater knitters as the next important group of customers for their wool yarns. Although knitters in this product area historically have always favored wool over synthetics in their lines, the use of wool in men's and boys' sweaters is estimated today to be at an alltime high.

The increased demand for all-wool yarns is also believed by the spinners to mirror a higher degree of enthusiasm for wool among some of the top drawer ladies' sweater firms than has been the case in the past 10 years. While the movement back to wool is not as pronounced in the women's sweater field as in the men's and boys' category, the amount of wool yarn now being channeled into ladies' sweaters is believed to be greater than in the previous decade.

Infants' and children's sweater knitters apparently are showing the least interest in wool. The poll of yarn spinners records only a minor percentage of wool yarns going into the pint-size knit garments. For these knits synthetics are still overwhelmingly preferred.

Wool Grades

In reporting on the wool grades specified by knitters in their wool yarn orders, the yarn processors indicated that sweater knitters appear to be favoring mostly quarter-blood wools, although they are also buying some three-eighths and zephyr grade wools. Manufacturers of knitted dresses and double jersey yardgoods, on the other hand, are plunking down orders mostly for zephyr yarns which require raw wool grades of 64s and finer.

Information was also obtained by means of the survey on the specific yarn sizes wanted by the knitters in their purchases of wool knitting yarn. The yarnsize responses show that sweater knitters are ordering wool yarns in the 2/15 w.c., 2/20 w.c., 2/26 w.c. and 2/30 w.c. yarn sizes.

Yarn sizes specified by knitted dress manufacturers as well as manufacturers of double jersey yardgoods are divided between single and two-ply yarns in the finer counts. The sizes specified in the singles bracket include 1/26 w.c., 1/32 w.c., 1/36 w.c. and 1/38 w.c.; in two-ply yarns, the orders extend from 2/30 w.c. at the coarse end of the size scale to 2/64 w.c. in the finer count range.

Upgrading Wool

The increased attention being given to wool in knitted outer-wear has prompted many of the knitters to demonstrate renewed interest in treatments for controlling felting shrinkage of wool and processes for protecting wool knitted garments against moth attack and inhibiting their pilling.

In the area of wool shrinkage control, sweater and yardgoods knitters have their choice of a larger number of treatments than have been available up to now. Included among these are Dylan, which has been on the market for a number of years and which was formerly marketed under the Sanforlan trade mark, as well as such newer processes as the Chloregal D process of Geigy Dyestuffs and the Melafix treatment of the Ciba Co. All three are chlorination treatments which can be applied to the wool in the form of raw stock, top, yarn, knitted fabric or completed garments.

In addition to these chlorination processes, manufacturers of wool sweaters and knitted yardgoods may also want to explore the possibilities of some of the new resin processes that have come on the market. Although in the past none of the resin-

(Continued on Page 5)

00

typ

hig of din

ods Dep tory trea on poly inte perf labo icalvati trol chen oxid sium 0 shri avail resin

Wo

weak

the fi

mills to 45

lent to

perce 1959 maint in the

in ord ted K

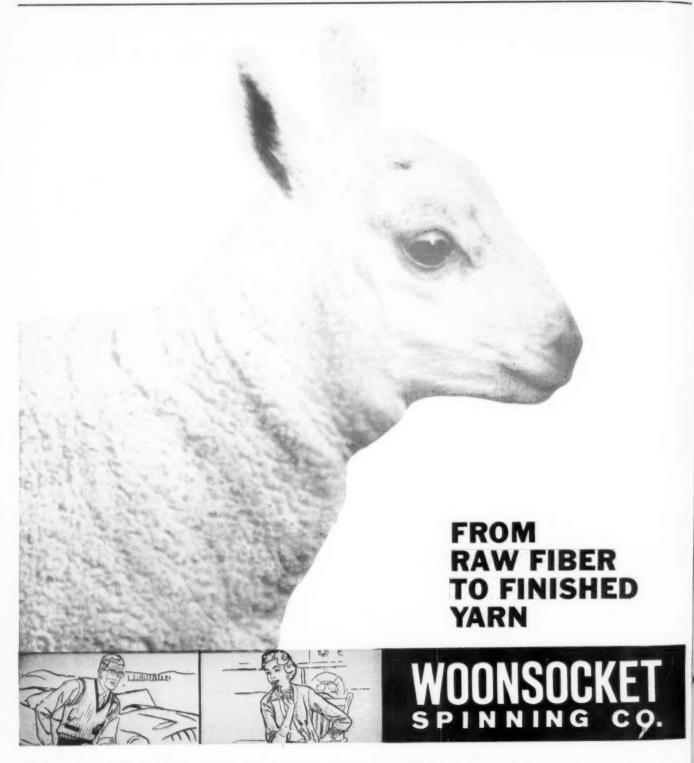
added supply availa month ceede percer

reveal

of sen

facture past

sumpt cent s



When you buy from Woonsocket you are buying the best! Whether it be <u>cashmere</u>, <u>camels hair</u>, <u>angora</u>, <u>fur blends</u>, <u>mohair</u>, <u>lambs wool</u> or <u>other specialty yarn</u>, Woonsocket begins with the world's finest fibers. Woonsocket processes them in its own mills, under highly scientific control until the yarn is delivered promptly to your factory. Thus you are assured of an adaptable resource, able to meet the constantly changing demands of men's and women's fashions.

Distributed by AMICALE YARNS, INC., 511 Fifth Ave., New York 17, MUrray Hill 2-1655 • A. M. Krasnoff, 1 Belmont Ave., Bala Cynwyd, Pa., MOhawk 4-6345 • Edgar Worth, 1511 W. Florence Ave., Inglewood, Calif., ORegon 8-4293 • Textile Yarn Co., 222 W. Adams St., Chicago 6, Ill., DEarborn 2-5230 • Spun by WOONSOCKET SPINNING CO., 115 Ricard St., Woonsocket, Rhode Island, POplar 9-3100

TIMES

type treatments for wool have proved as practical or successful as the chlorination procedures, high hopes are held out for some of the newer processes for padding insoluble resins on to the wool.

Among the promising methods is one developed by the U.S. Department of Agriculture at its Wool and Mohair Laboratory in Albany, California. This treatment involves the deposit on wool fabric of an epoxypolyamide resin finish. Another interesting resin-type treatment, perfected at the wool research laboratories in Australia involves the use of a similar chemical—N-substituted nylon derivatives.

The wool shrinkage control research in Australia is also proceeding in the area of chemical treatments, utilizing an oxidizing agent such as potassium permanganate.

Of the two basic types of shrinkage control processes available—wet chlorination and resin—the former appears to

have the greater advantage, at least for manufacturers of wool knitwear. The chief benefit of wet chlorination is that the treatment is relatively simple to apply; usually chlorination processes are carried out as a stage in the dyeing of the wool in either top, yarn, strip or garment form.

Not to be overlooked, however, is the fact that some weight loss occurs in chlorination shrinkage control; some methods produce a weight loss of as high as five percent. Resin treatments, on the other hand, result in an increase in fabric weight proporionate to the amount of the resin agent that is deposited on the wool fabric. However, to date none of the resin treatments have proved as feasible as the chlorination methods for knitted outerwear, despite the shortcomings of the chlorination treatment and its limited commercial acceptance by outerwear knitters generally.

Work on controlling the pilling of wool is not quite as ad-

vanced as research on methods for reducing the felting shrinkage of wool. However, a survey of technical literature occasionally discloses that effort is continually being expended on chemical or physical treatments for controlling, if not wholly eliminating, pilling of wool knitted garments. While the problem of pilling is not as troublesome in wool knits as in knitted apparel made of spun synthetic fibers, in certain types of loosely knit sweaters pilling has been found to be objectionable.

Outcome of Other Work

Most of the research undertaken for the control of pilling in wool knitwear has centered in the laboratories of the British Wool Research Association in England and the Textile Industry Wool Research Laboratories in Geelong, Australia. Earlier this year Mr. Lipson, a scientist on the staff of the Australian organization told the 30th anniversary meeting of the Textile Research Institute of progress made by his outfit in devel-

oping a chemical process for retarding pilling in wool knitwear. Mr. Lipson reported that many of the chemical wool shinkage control processes result in a considerable reduction of pilling in knitwear. This effect, he indicated, first became apparent in the course of studying alcoholic alkali as a felting shrinkage inhibitor for wool. Subsequently, it was observed that many other types of shrinkage control processes utilizing other chemical agents produced the same results. The control or elimination of pilling, he said, was no doubt a direct outcome of the reduction in fiber migration that results from chemically treating wool for shrinkage resistance.

Studies at the Australian laboratories disclosed that the best results were accomplished with a permanganate-salt treatment used for curbing the felting of wool. By after treating the wool with polythene, even better results were obtained.

Wool Statistical Review

Recent Trends In Consumption Of U.S. Apparel Grade Wool

By RUTH JACKENDOFF
Director, Department of Economics and Statistics,
The Wool Bureau, Inc.

MILL consumption of apparel wool during January-August had fallen off four percent from a year ago, reflecting a shade more weakness in the worsted system than in the woolen system. During the first half of the year, wool civilian apparel fabric production was off two percent from a year ago. The supply from domestic

mills was supplemented by close to 45 million square yards of imported wool fabrics (equivalent to 29 million linear yards), representing an increase of 31 percent over the corresponding 1959 rate of imports. Italy maintained its new leadership in the import market followed, in order, by Japan and the United Kingdom. When imports are added to production, the tota! supply of wool apparel fabrics available during the first six months of 1960 actually exceeded that of a year ago by two percent

Fabric imports alone do not reveal the extent to which the expanding import trade balance of semi-manufactured and manufactured wool goods during the past decade has modified the apparently severe decline in consumption of apparel wool. A recent study by the U.S. Depart-

ment of Agriculture estimated that a rise of 307 percent from 1948/49 to 1958/59 in the raw wool equivalent of our net import balance in wool manufactures modified the reported decline of 41 percent in mill consumption to 25 percent at the consumer level.

In knit apparel, which experienced a dynamic rise during the past decade, domestic consumption of raw wool declined 36 percent from 58.3 million pounds clean in the post-Korean war year of 1953 to an estimated 37.5 million pounds in 1959, the second successive year in which the consumption of wool for knit goods has been rising. According to the Department of Agriculture study, the raw wool equivalent of the import balance of wool knit manufactures increased 172 percent

during the same period. Furthermore, the net import balance increased 22 percent between the first quarters of 1959 and 1960, while domestic activity in wool knit goods was presumably off from a year ago.

A new monthly report initiated this year by the Census Bureau, includes statistics on the production of woolen and worsted knitting yarns for sale. It is encouraging to note that there was a gain of 24 percent from the first to the second quarter. Worsted system yarns accounted for 71 percent of the six-month total of wool knitting yarns produced.

Since the beginning of the year, market quotations for quarterblood and zephyr knitting yarns have weakened, revealing the slackness in demand so far, in contrast to the strength of last fall's market. The late September quotation for 2/20 worsted quarterblood yarns was \$1.95, off six percent from the peak of \$2.075 quoted during January of this year. The corresponding quotation for 2/30 worsted zephyr yarns (French

system) was \$2.475, off 10 percent from the January-February peak of \$2.74.

The market prices of grades of raw wool from which quarterblood and zephyr yarns are spun are normally directly reflected in the prices of the yarn, which also include processing costs. The last September price of domestic quarterblood, graded territory good French combing and staple, on the Boston market was \$1.075, a decline of four percent from the peak of \$1.115 reached in November-January, 1959-60. The corresponding decline of graded Territory fine wools, good French combing and staple was 15 percent from a peak of \$1.325 in July to the last September price of \$1.125.

Zephyr yarns require raw wool of fine grade (64s and over) which are in relatively greater supply in the domestic clip and in the clips of the major wool-supplying countries than supplies of quarterblood wools. The recent demand for quarterbloods reflects the protracted popularity of bulky sweaters.

(Continued on Page 7)

t proc.
Thus

Jynwyd ims St. 9-3100



something wonderful happens when you concentrate on



Your sales slant takes a sharp curve upwards! Your PROFITS begin to soar. Your plant hums happily and more efficiently because everyone in it prefers to work on wool.

Wool in knitwear dominates consumer demand today. Wool represents the tops in fashion, quality and dependability. There's no sales obstacle on wool because customers know wool... know that its performance is absolutely reliable.

Energetic has been concentrating on wool for the knitwear trade for more than four decades. Take advantage of a wool specialist's expert knowledge by consulting Energetic for all your wool yarn needs, custom-tailored to your requirements. When you do, watch something wonderful happen to your knitwear profits and prestige!



ENERGETIC WORSTED CORPORATION

SUPPLIERS OF ALL GRADES OF WOOL

Bridgeport Montgomery County
Pennsylvania

Telephone — Broadway 5-4970

OCT

sure of qu yarn s approume of mestic the fircountri

classif as qua they v 48s to supplie grades cation, true al

juarte

U.S. cl son we quate quirem total v million have 1959 f wool l it shou 70 per

Woo

the fir

ALE United an expa for imp has alre a publi alty-free field is governir pleted

improv wool f manent wool fa that is of woo moleculatiber ar program

The oratory, which Utilizat velopmostudies ing last essing

MES

While there is no exact measure of the total available supply of quarterblood on which U.S. varn spinners can draw, Table 1 approximates the present volume of these wools in the domestic clip and in the clips of the five major wool supplying countries.

It should be noted that most U.S. marketing agencies today classify wools grading 50s to 54s as quarterblood whereas in 1946 they were designated as grades 48s to 50s. Foreign quaterblood supplies were assumed to include grades nearest the U.S. classification, but may overstate the true amounts owing to different grading standards.

The 27 million pounds of quarterbloods available in the U.S. clip during the current season would seem to be an adequate supply for domestic requirements in the light of the total weight of raw wool (37.5 million pounds) estimated to have been consumed during 1959 for the total production of wool knitting yarns. However, it should be recalled that over 70 percent of the wool knitting yarn produced for sale during the first six months of 1960

TABLE I

ESTIMATED AVAILABLE SUPPLIES OF QUARTERBLOOD WOOLS FROM DOMESTIC CLIPS AND FROM MAJOR **EXPORTING COUNTRIES, 1960/1961**

Source	illions of pounds Clean Basis	Percentage Distribution
United States ((50s-54s)	27.1	13.4
British Dominions Australia, 50s-52s) New Zeland	30.7	15.2
(50s-56s) (50s-52s)	25.9 68.6	12.8 33.9
Total New Zealand Union of South Africa (50s-52s	94.5	46.7 0.1
Total British Dominions	125.4	62.0
South America Argentina (48s-50/56s) Uruguay	27.0	13.3
(56s) (50s)	16.9 6.0	8.3
Total Uruguay Total South America	22.9 49.9	11.3 24.6
Grand total above	202.4	100.0

were spun on the worsted system, which requires relatively long staple wools. In addition, a woven fabrics. Therefore, part large weight of quarterbloods of the total requirements of

are consumed in the manufacture of woolen and worsted quarterbloods for knitting yarns are probably imported. In 1959, imports of wools gradings 50s-56s totaled over seven million pounds, clean basis.

Domestic wool prices have been at a discount on foreign prices during most of 1960 and an excellent buy for those who needed wool at any given time. The world wool balance sheet for the season in force is such that firm to rising world prices would appear to be a more reasonable expectation than lower prices. When supplies of domestic wool run out, domestic market prices will move up to foreign levels.

In view of the hesitation in overall business activity, the textile industry should not be entirely surprised at the gradual decline in new textile orders which has developed during recent months. It had looked for a somewhat longer period of recovery from the 1957-58 recession, following and industry resolution to avoid production for inventory. The belief is frequently expressed that the textile industry is better prepared now than ever before to cope

(Continued on Page 61)

Wool Processing

Government Seeking To Improve Wool's Properties

ALBANY, Calif.-The Wool and Mohair Laboratory of the United States Department of Agriculture, here, has embarked on an expanded program of research, studying all sorts of treatments for improving wool. One method of making wool shrink resistant has already been developed by the laboratory and released through

a public service patent for royalty-free use; research in this field is continuing. In addition, government scientists have completed successful experiments to improve the manufacture of wool felts and to make permanent pleats and creases in wool fabrics through a method that is odorless. Basic studies of wool involving the entire molecular architecture of the fiber are part of the continuing program.

The Wool and Mohair Laboratory, one of seven such labs which make up the Western Utilization Research and Development Division, began its studies in 1947. With the opening last year of the Wool Processing Laboratory, researchers have been able to speed up their work and to perfect testing techniques. The processing lab contains complete commercial equipment with which all steps involved in converting raw wool into finished fabric can be studied.

Present studies in the control of felting shrinkage involve the application of new resins and other surfacing agents including a nylon solution. Many of these give promise of being particularly adaptable for knitwear. Laboratory scientists are constantly working to perfect a shrinkage control method that will provide easy care without losing any of wool's uniquely desirable qualities. Multi-purpose treatments are also being investigated.

The shrinkage control method that has been released involves the use of an epoxy-polyamide resin. Complete directions for the formulation and application of this process may be obtained free from the Laboratory by requesting form CA 74-8.

To make pleats and creases permanent, government researchers report success with the use of dilute solutions of ethanolamine. A property of this chemical that is unlike most of those currently in use is that it leaves no objectionable odor. It has also been noted that the process not only is successful for permanent pleating and creasing but that it also makes the flat part of the fabric more wrinkle resistant.

Using a 0.5 to 2.0 percent solution of ethanolamine in water, with a very small amount of detergent to facilitate wetting, the solution can be applied either by spraying or dripping, after which the damp fabric is steam pressed. In a typical experiment with lightweight suiting, creases were set in one minute at about 280° F. in a tailor's press. The treatment is applicable to fabrics that have been shrink-proofed by the epoxy-polyamide resin method. Fabrics that have received both treatments are washable in machines without shrinking and without loss of creases.

In research on wool felts, scientists discovered that soft wool felt treated with a hot solution of dimethyl sulfoxide becomes dense and hard within a few minutes. Relative hardness can be controlled both by the length of time the felt is left in the solution and by the temperature of the bath.

Objective of the improved process is to lower the cost of felt manufacture by reducing the amount of mechanical beating now required to harden felts.



KNITTING YARNS **OF EVERY DESCRIPTION**

Worsted — Zephyr — Jersey

By

PHARR WORSTED MILLS, INC.

Represented by

DAYTON LARZELERE

Joseph T. Manning, 3rd-Gordon F. Bottomley 2211 Packard Bldg., Philadelphia 2, Pa. LOcust 3-3112

> In New York call LAckawanna 4-0741

In the Mid-West

C. M. Patterson 222 W. Adams St., Chicago 6, Ill. RAndolph 6-6787

Synthetics and Blends

By

PHARR YARNS, INC.

Represented by

EDWIN L. DALE

John L. Dale 765 Lancaster Ave., Bryn Mawr, Pa. LAwrence 5-6810

In New York call HUGGINS-CLELLAND, INC. BRyant 9-8752

Casi Sh

OCTO

TH finest a womer larity r States there : tinue ments them. Why handlir my co treme of the Cashm the sh registe years a materi No an been a pliers increas disrupt dimini: The su stand method

> to all ditions supplie uncoop joy a United lations. destine which the for Of

> a nece a luxu

> after y what I popula price s tractive market ican c tent th substitu mere s

field. Pres have other ously p gress in ning of

right.

ness c

blends bit hai additio IMES

Cashmere Trends

Sharp Price Fluctuations Big Factor Behind Reduced Use

President, Amicale Yarns, Inc.

THE current year is an average one for cashmere, the world's finest and most luxurious specialty fiber. Appreciated by men and women everywhere for its lightness, warmth and hand, its popularity remained steady. However, many knitting firms in the United States dropped cashmere from their manufacturing programs. Now

there are only a few which continue to supply cashmere garments to the stores and, through them, to the American public.

Why are fewer organizations handling this commodity? It is my considered opinion that extreme fluctuations in the price of the raw stock are responsible. Cashmere has been subjected to the sharpest price changes ever registered; over the past two years alone, the cost of the raw material has more than doubled. No amount of persuasion has been able to convince the suppliers of the raw fiber that ever increasing prices for cashmere disrupt the market and greatly diminish business possibilities. The suppliers just do not understand American merchandising methods and turn a deaf ear to all attempts to explain conditions here. Unfortunately, the suppliers feel that they can be uncooperative because they enjoy a monopoly; because of United States government regulations, theirs is the only fiber destined for knitting purposes which can enter this country in the form of raw material.

Of course, cashmere is not a necessity. It has always been a luxury item which sells year after year to a loyal, if somewhat limited; proportion of the population. However, when the price structure is sufficiently attractive to appeal to the mass market, then the average American consumers refuse to content themselves with so-called substitutes, but insist on cashmere sweaters. If the price is right, a large volume of business can be developed in this field.

Present conditions, however, have encouraged the use of other fibers more advantageously priced. Manufacturing progress in the processing and spinning of all kinds of wool and fur blends such as angora and rabbit hair has been noteworthy. In addition to excellent styling,

sweaters made from these blends have achieved a "cashmere-like" soft, attractive hand which has an irresistible appeal to the consumer. Especially with such popular numbers as classic cardigans and pullovers, the fur blends have been enjoying signal success and easing cashmere out of this particular market. Because of the price differential. fur blends have been giving cashmere serious competition.

The cashmere industry is not standing still, but is fighting to retain its foothold with every means at its command. It is concentrating on the technical aspect, seeking to improve the quality of the product and increase the efficiency of its operations. From processor to knitter, every mill is doing its utmost to achieve the highest possible pro-

duction standards. The processor of the raw fiber has perfected cleaning and dehairing operations to such an extent that practically hairless cashmere is the result. All coarse hair is eliminated during the dehairing process so that only pure down fiber remains. Today any color can be successfully dved on cashmere, from the whitest white and palest pastel to the darkest shade.

Yarn spinners, like my own mill, Woonsocket Spinning Co., keep abreast of the latest developments in spinning machinery and equipment. At Woonsocket, we have modernized our plant and continue to produce the finest and most even woolen spun cashmere yarns, rivalling the best that is made abroad. The cashmere knitters, armed with the best possible yarn, have been able to manufacture sweaters to meet the most exacting standards. They have gone on to exert all their ingenuity to create new styles and unusual colors to attract the buying public to this still unsurpassed article of women's apparel. One knitter in particular has made his name synonymous with outstanding cashmere quality.

Because of these unrelenting efforts throughout the industry. will 1961 witness an increase in the sale of cashmere products? In the last analysis, the price structure will be the determining factor. Despite all his enterprise, the sweater manufacturer today is hesitant about conducting an all-out campaign to promote the sale of his product to the stores, because he is afraid that unstable cashmere prices will cause him heavy losses on his yarn commitments. Realizing this, we as one of the principal spinners of cashmere yarn, have been protecting our customers against possible price fluctuations this season by maintaining our prices to them and assuming the risks in an uncertain market. We are all doing our best to make the use of cashmere more widespread, by

(Continued on Page 63)

Wool Specialty Fibers

An Analysis Of Fur And Hair Fiber Trends

BOSTON, Mass.—Probably the best buys in the highly volatile fur and hair market today are muskrat and adult mohair, according to John H. Forte, vice president in charge of the wool department of Forte, Dupee, Sawyer Company, reputed to be the world's largest importers and processors of specialty fibers.

Short fibered muskrat is hard to spin and does not have the exotic appeal of some of the other furs but can now be bought around \$1.50 whereas muskrat prices have ranged up

to \$5 per pound.

Edward F. McManus, head of the Forte, Dupee, Sawyer's fur and angora division, said raccoon is the fur going in the greatest volume to the knitting industry. It is used principally in yarn for leather faced gloves. The annual volume is estimated around 35,000 to 50,000 pounds, selling in the vicinity of \$2.35. Mink, considered to be something of a "gimmick" fiber with appeal as a romance label is valued at \$2 currently

and consumed at a rate of about 15 to 25 thousand pounds a year.

Fur fiber prices are characteristically speculative from season to season and Mr. McManus said the fluctuations of angora is a good illustration. Two years ago, offerings were relatively reasonable around \$3.50 per pound but this fiber has been known to range up to \$16, thereby pricing itself out of the market. Japan, the biggest source for angora, formerly shipped 300,000 pounds annually but now the domestic varn business in that country absorbs three-fourths of the yearly production. Obviously, this has affected worldwide prices and angora values today are listed:

\$8.50 French; \$6.25 Japanese; \$6.50, Argentine and \$7.25 to \$7.50 for good northern Euro-

Forte, Dupee, Sawyer has been a factor in the fur market only for the past five years, but their headquarters at 311 Summer Street has been a mecca for specialty fibers for thirty years. The firm stocks small quantities of practically every known rare fiber with the exception of vicuna, Icelandic wool and Shetlands and for these will tap its contacts on request.

The downward trend in adult mohair has brought this fiber lower than it has been for years. Mr. Forte said that over ninety percent of the Texas clip has hitherto gone into export but with the diminishing manufacture of woven fabrics abroad. Texas adult mohair has dropped from the vicinity of \$1.111/2 and

(Continued on Page 65)

Yarn Processing

Lamb's Wool, Cashmere Spun Into Yarn On Woolen System

VIRTUALLY all of the lamb's wool and cashmere yarns used in sweaters are spun into yarn on the woolen system. Woolen system yarns, unlike those spun on the various worsted system, consist of a random intermixture of relatively short and long fibers. In the processing of woolen system yarns no attempt is made to

achieve any degree of fiber parallelization such as is done on the worsted systems; yarn spun on the woolen system has a fuzzy surface and a distinctly hairy appearance resulting from pro-

jecting short fibers.

Woolen system yarns generally possess moderate strength and good bulking or covering properties. In the processing, a soft twist is imparted. This contrasts with the relatively little twist used in French system yarns and the comparatively high twist imparted to Bradford-spun yarns. The pliability of woolen system yarns is good.

Steps Outlined

The woolen system is a shortcut spinning procedure. There are four fundamental operations involved: (1) picking, (2) carding, (3) spinning and (4) winding-on. If the yarn is to be produced in two-ply form, an additional operation of doubling is required.

The picking operation is primarily an opening procedure designed to prepare the stock for carding and to blend it thoroughly, particularly if the stock consists of varying qualities of the same fiber or of mixtures of different fibers.

Carding is done on a threecylinder card. The important step in this operation is feeding. The quality of the final product is determined by the manner in which the stock is fed into the card. Carding done on the first cylinder is in the nature of a further opening operation. After the web leaves this cylinder it is fed into two finishing cylinders by means of a broad band feed. The end product resulting from the carding operation is roping

which is doffed on modern equipment by means of tape condensers and on older equipment by ring doffers.

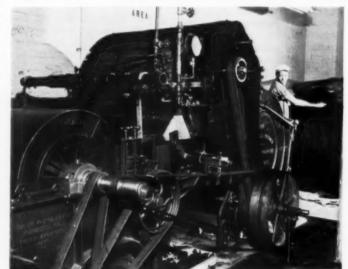
The roping is converted into yarn on either a self-acting mule or iack or a ring spinning frame. The latter is a relatively modern innovation and in most woolen system mills is replacing the selfacting mule. The mule has a moveable carriage which drafts and spins the roping into yarn. This action is in two operations. The ring spinning frame operates in continuous fashion and is thus more economical. It has the further advantage of taking up far less floor space than a self-acting mule. Winding-on is performed on conventional winding equipment.

ther

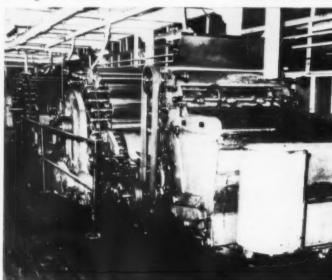
secti

Shov

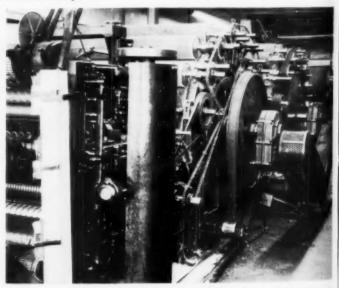
Size of woolen system yam is expressed on either the run or cut basis. A run is equivalent to 1,600 yards to the pound, and a cut to 300 yards to the pound. Thus, a 5-run yarn measures 8,000 yards and a 2½ cut yam 750 yards. Generally speaking, the limit to which woolen system yarn can be spun is 7 run, which is equivalent to a 20 count yam on the worsted system.



1. First step is feeding of raw wool fiber into the picker, a processing unit which opens and blends the stock. Here the stock is being fed into the Bramwell feed of a Davis and Furber picker.



2. Feed end of card, above right, and exit end of the card, left. The stock goes to the card after thorough blending. It is fed manually into the feed box at the front end. The quantity of stock in the feed box is kept at a uniform level to assure even feeding. The stock is picked up by an apron feeder and deposited in a scale box which dumps the appropriate weight of



stock onto another feeder. Latter carries the stock into the first breaker. A doffer removes the stock from the first breaker and lays down a web which is condensed and fed through a Scotch feed into the second and third breakers. From the third breaker, the wool is doffed, again formed into a web and fed into a condenser where it is divided into multiple ends.

em modern pe connipment

TIMES

ed into g mule frame. modern woolen he selfhas a drafts o yarn. rations. perates

is thus he furup far -acting formed equip-

run or dent to , and a pound. easures it yarn eaking, system which

it yarn

nker. A which d third into a ends.

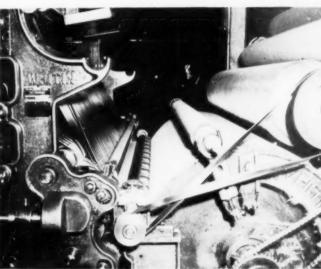


3. The first breaking operation is shown in the photograph at the center. The various rollers cone, rub and further break open the stock. The Peralta section of the breaker is directly above. Shown is the coherent web which has been transformed from the loose stock by the carding action of the cylinder and worker rolls on the three-breaker card.

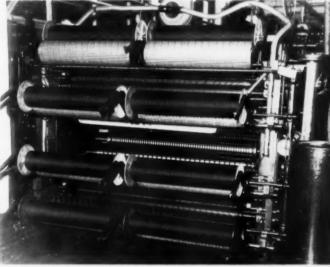


4. The web, now conveyed by a Scotch feed, in photo below, is deposited on an intermediate feed apron where it receives a progessingly finer carding on the intermediate and finish breakers of the three-breaker card.





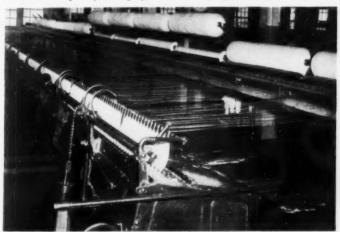
5. Tape condenser which divides the carded web into even strands and forms each strand into roping.



Finish end of card. The stock is passed through the final series of rollers and is put up in roping form on long spools ready for spinning.



7. Ring spinning, one of two ways of converting roping into yarn under the woolen system. The ring spinning frame operates in continuous fashion and is a more modern way of spinning than the self-acting mule.



8. Self-acting mule or jack. The mule has a movable carriage which drafts and spins the roping into yarn in two operations. Mule spinning is gradually being discarded in favor of ring spinning.

WORSTED

ZEPHYRS

MOHAIR BLENDS



QUALITY SPUN BY

WALTER MARSHALL SPINNING CORP. OF R. I.

Thornton, R. I.

S. Brustein

STABLISHED 1910

96 Spring Street, New York 12, N. Y. CAnal 6-7312

ORLON SAYELLE®

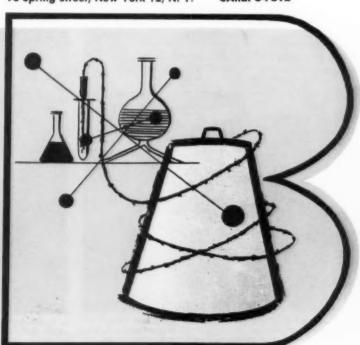
PUFF-EE®

SHAG-O-LON®

CHAPPY®

NYLON

NYLAC (Nylon & Acetate)



M 192

entin

rentirican fram for duce inatii opera Fren Fren Th

cashi and yarns ing I dome moha than tion nille, metal equip Jae

given ican splant method this a all the floor, media and

carde mule spind

1

IMES

Wool Yarn Processing

Masurel Mills Converts From French To American System

WOONSOCKET, R. I.—Masurel Mills, established here in 1924 in a wing of a former cotton mill, produced worsted yarns entirely by the French system for thirty years and, during that period, was probably the only mill in the United States spinning varns used for lace work to a fineness of 120 count.

Today, the plant is almost entirely converted to the American system and but one French frame remains in operation and for that too, rovings are produced from top, thereby eliminating five of the preliminary operations characteristic of the French system. However, 4 French rover is still employed.

The firm has discontinued spinning camel hair, angora, cashmere and novelty fur fibers and now produces specialty yarns from wool, generally ranging from 50/54s to 70s, both domestic and imported, alpaca, mohair and the synthetics. More than 90 percent of the production is fancy twist such as chennile, nub, ratine, flanne and metallics for which French-made equipment is used.

Jacques E. Staelen, general manager, said first thought was given to converting to the American system in 1954 and a pilot plant to experiment with the method was set up. Floods in this area in 1955 that destroyed all the equipment on the first floor, however, forced an immediate decision. French gilling and combing equipment and carders were lost and French mule spinners totaling 9,920 spindles previously discarded,

were put out of operation and company officials were faced with the immediate problem either of making replacements to continue spinning by the French system or installing new equipment for American system spinning which had become increasingly popular since the war. The latter had many advantages and economical features and a decision was made to convert. Eighty-six hundred McGlynn-Hays spindles, now in use throughout the entire plant, replaced the French mules. Worsted yarns, now spun for swimwear, dress and sweater knitters, range in size from 1/5 to 1/55 and Ban-Lon and Spunize yarns are produced in vol-

Three ounce top is first processed in a series of pin drafting operations, three for the American system and eight to ten for the French. This department has 12 Warner-Swasey pin drafters and one auxilliary. Four are assigned to each stage. Raw stock may be reduced from 800 to 150 grains in the first pass, to 95 on the second and to 63 on a third. Fiber lengths are handled ranging from $2\frac{1}{2}$ inches to nine inches.

Each pin drafter has two feeds with pins set top and bottom 15 to the inch. Racks will accommodate four balls of top on each side and belt conveyors feeding the pins may draw from each of four balls. Mixes and blends are made during the pin drafting by simply processing different types and shades of top simultaneously.

Before passing through the pin drafters, top is sprayed with a one to four or five percent oil emulsion for static control by automatic Acumeter pumps. After passing through the pins a gear mechanism gives the sliver a half-turn and feeds the spiral into canisters — 1,100 yards per canister. The drafters are equipped with Veder Root counters set to stop the flow automatically at any desired length.

Roving is produced on three Saco-Lowell rovers of 120, 72 and 48 spindles respectively, a Whitin machine of 120 spindles and the French rover. On American machines, an apron convevor carries the sliver under a pair of drafting rollers which can be pressurized from 0 to 175 pounds and which may be adjusted at varying distances apart to accommodate different fiber lengths. Amos Bricault, mill superintendent, said that within five or ten minutes, spread between the rollers on the American machines can be

changed from an adjustment for 4½ inch fibers to process nine inch fibers.

On the French rover, since no twist is imparted to the roving, no pressure is exerted by the back rollers and no more than fifty pounds is used on the front fixed roller which is about three and one-half inches in diameter. Back rollers are removable and consist of a series of different sizes and weights interchangeable which are arranged in various combinations best suited to the sliver being drawn. Rub aprons are used to give the sliver added strength. Porcupines on the top of the frame hold fibers in place during the drawing.

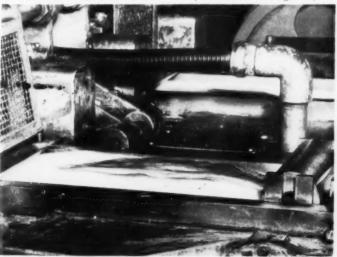
For American spinning, 13 Saco-Lowell ring frames of 240 spindles each are used and there are also, two Whitin frames of 240 spindles each, employing the Casablanca long draft system. The single frame now in operation for French spinning has 400 spindles.

Mr. Bricault said one of the principle advantages of the American equipment was its adaptability. Racks can be reset and weights can be controlled to effect greater evenness. Apron carriers convey the sliver under a set of three rollers and one of the controlling factors is the ratio between the pressures exerted by the front

(Continued on Page 15)



Pin drafter with casing open to show feed mechanism and gears that give sliver-half-turn as it spirals into cannister.



Blending and mixing is accomplished by feeding different shades of top into pin drafter simultaneously.

OCTO

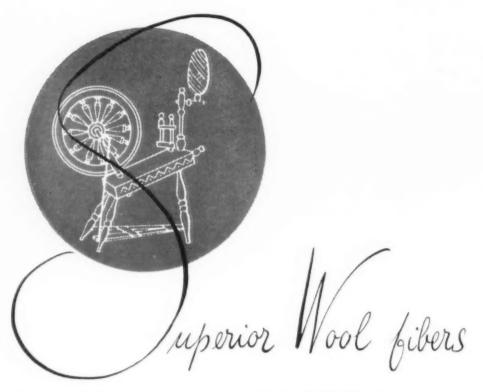
roller a typic pound on the frame, ing be ers dr rollers all ope These tances togeth front catch rollers ing fr Waste bar. In Mr. B can e qualit a low three p systen 11/2 p and to Qu by fre every top c amine nibs : mity, tus fi

> princi less t

> graph can b

> rupte

stage



Choicest WOOLS and SPECIALTY FIBERS of the World
Spun with Expert Craftsmanship
by

THE ALDON SPINNING MILLS CORPORATION

For discriminating knitters who demand perfection



THE ALDON SPINNING MILLS CORPORATION

Talcottville, Conn.



Represented by: Merritt Company 40 E. 34 St., New York 16, N. Y.

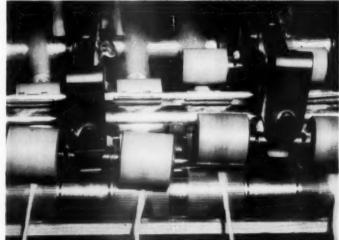
Moher Associates 44 Washington St., Wellesley Hills 81, Mass. C. J. McAlaine One Highland Ave., Bala-Cynwyd, Pa. IMES

roller and the back, which on a typical operation might be 110 pounds on the front and 90 on the rear.

On the French spinning frame, a twist is given the roving before the fluted carrier rollers draft it under a battery of rollers, all of different size and all operating at different speeds. These are set at varying distances apart and merge closer together as they approach the front of the frame in order to catch up the short fibers. These rollers exert no pressure and the fibers slide into position in passing from one stage to the next. Waste is caught up on a plush bar.

In comparing the two systems, Mr. Bicault said the the American equipment achieved better quality, faster production and at a lower cost. Waste is about three percent less than the French system which might lose up to 1½ percent in the drawing room and two percent in the spinning.

Quality control is maintained by frequent laboratory testing at every stage of production. All top coming into the mill is examined for evenness of sliver, nibs and color. To test uniformity, electronic Uster tester equipment is used. This apparatus functions somewhat on the principle of radar. Sensitive to less than a hair's thickness, it records electrical impulses on a graph and variations in a fiber can be detected at points where the impulses have been interrupted. Each lot processed is tested at about seven operative stages.



Rollers on American roving machines are flexible and may be adjusted at varying distances apart to accommodate different fiber lengths in a matter of minutes.

Incoming raw stock is visually inspected and compared with a norm chart for shade, and one ounce samples are examined for cleanliness and given a vegetable matter and nib count. Eight tests per day are conducted on units of 120 yards, for size and strength, and are made on every spinning frame.

Moisture tests on in-coming raw stock and finished yarns are made by the Sohxlet extraction method. Shrinkage tests are conducted on all synthetics and there is a twist count for every lot processed by the mill. In addition to routine testing, the laboratory is equipped to perform cloth analysis and microtesting of fiber diameter of incoming top.

For fancy twisting, there are 28 machines manufactured by

Ateliers de Construction de Bitchschwiller, at Haut Rhin, France. Some of these have 100 spindles, others 200 and both three inch and 25% inch spindle ring sizes are employed.

One type of machine can be adjusted to twist chenille, nub or ratine while the other type is used for the production of flammé and a variety of other intricate yarns used for high-fashion knitwear. These novel yarn effects, which constitute something over ninety percent of the production, are accomplished by feeding the ends making up the yarn at different speeds.

Starting afresh on another system with new machinery after the flood of 1955, the management had an opportunity to pay particular attention to plant layout and materials handling.

The mill occupies 45,000 square feet on two floors, one at street level. Production flows from the second floor with the finishing departments on the first. The skein winding department adjoins the twisting room and the packaging department is served by a 2,500 square foot shipping area.

A heat chamber, where spun yarn is conditioned at temperatures usually around 180 degrees to facilitate handling, is also located on this level.

The drawing room on the second floor has a maximum capacity at present of about 28,000 pounds per week, and the 1.2 hank rovings are stored in fiber baskets fitted with casters for easy conveyance to the spinning room on the same floor.

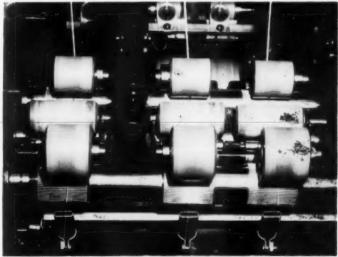
To prevent contamination of fibers blowing from one frame to another, spinning machinery is separated by plastic curtains and screens, the latter used to allow greater ventilation.

Some cone spinning is also done on the second floor. In all there are four Universal Rotoconers, which wind one hundred one to three pound cones per machine, and yarn on spindles and in cones transported to the first floor by means of a 90 foot belt conveyor which serves a track of roller conveyors in the finishing departments at the lower level.

For maintenance, the mill has six full-time mechanics and a machine shop suitable for making small parts and equipped with lathes, milling machines, band saws and a welding room.



Series of back rollers on French roving equipment are of various weights and sizes and are interchangeable. No twist is imparted, no pressure applied.



Adaptability of racks on American spinning frames which can be set to accommodate various fibers effects greater evenness.



it takes an experienced dyer to QUALITY PACKAGE DYE

and FINE ZEPHYR
YARNS

CHOOSE CENTRAL

 We have the most modern facilities, skilled technicians following rigid quality control techniques of any dye house serving the knitted outerwear industry.

PACKAGE DYEING



Yarn and Dyeing Company

GASTONIA, NORTH CAROLINA

New York Office:

KEMFAST TEXTILES, INC.

Murray Catin, Sales Director 1410 Broadway, New York 18, N. Y. WIsconsin 7-2744 14th floor

Superb package dyeing of

ALL SYNTHETIC YARNS

ORLON SAYELLE — TURBO — HI BULK — REGULAR ORLON ACRILAN & ACRILAN 16

Fully and Uniformly Relaxed and Ready for Knitting Colors are Bright, Hand and Softness as Desired FOR BULKIES, COURSE AND FINE GAUGE, AND INTERLOCK

CHOOSE CENTRAL

- We're "next door" to most leading yarn spinners.
- We can assure you of "cone-to-cone" consistency with minimum loss.
- We eliminate winding waste and risks.

TIMES

ing

Versatile Wool Sweaters For Campus And Skiing



Pullover, above, by Robert Bruce in washable wool and mohair is brushed to a luxuriant shaggy surface. Neat V-neck exposes clean-cut necktie are. It comes in purple plum, camel, chianti, blue, tuf green or gold. Right, a checkerboard, all wool Kingstone ski sweater has miniature squares in three colors and a detachable turtle dickey for extra protection against wind. Wool can stretch to twice its size during active play and then spring back to original shape.





Bold surface texture is featured on Puritan's Elmora, left, with its novelty collar and on the Parma, with high-V and raglan sleeves. The Elmora, retailing at \$16.95, comes in white and gold, white and olive, white and dark oxford, gold, olive, piedmont blue, java or dark oxford. The Parma retails at \$25 and comes in white and gold, white and olive or java



A brushed, long-sleeved pullover with alternating gray patterned stripe by Robert Bruce is offered in sizes S-XI. at \$12.95 retail and in a choice of charcoal, evergreen, sycamore or winter white background.



Bulky cardigan jacket by McGregor is enriched with leather trimming around the collar, the deep patch pockets and the snug buttoned cuffs. It comes in the newly favored zipup style, fully lined for extra warmth, in sizes 36-46, at \$35 retail. The color choice is Polar white, charcoal gray, covert green or tan.

Dartmore makes this zig-zag striped pullover with button-over shawl collar, snug cuffs and bottom band in solid contrast. Sizes are S-XL, Price is \$16.95 retail, and colors are gray and white, olive and black or gold and black.



Photos courtesy, Woolknit Associates, Inc.



COLOR FASTNESS

Getting color perfect is important—making sure that the "hand" is right is vital too—but equally vital is making sure that the color will stay right under conditions of use. That it won't fade in the sunlight... that it will resist perspiration... that it will not be affected by airborne substances of various kinds... and above all, that it can be properly washed without running or fading. The best assurance of color fastness is the application of experience and science. Jefferies' splendid organization offers you both, in greater measure than you'll find anywhere else. There's too much at stake for you to settle for anything less.











THREE

Jefferies
PROCESSORS, INC.
keeping color right since 1938

3344 FRANKFORD AVENUE . PHILA. 34, PA. . GARFIELD 6-5035

Woolknit Fashions

Longline Bulky Wool Sweaters Come In Varied Styles



Navajo art has furnished the authentic design of this woolknit ski sweater. A bold print is knit into the sweater which is elongated to cover the hips. The design is carried to the edge of the boat neck, cuffs and hem where no ribbing is used. New bulky sweaters feature a variety of knitted-in patterns. Alternating bold stripes of knit and purl on the body of the sweater at left, below, form the background for large diamonds embossed within the purl rows. Very new sweater silhouette is the poncho pullover pictured right with deep V-neck, shawl collar, and contrast color striping around edge and collar. A ribbed texture in the knitting adds further interest.





The belted tunic is becoming increasingly popular this year. Seen left in a soft brushed wool and mohair pullover, the sweater features drawstring waist and softly rounded collar. New and interesting textures are also sweater news as evidenced by the sweater on the right. Ribbing on the wing collar, patch pockets, cuffs and strip down center of this cardigan provide bold contrast

Horizontal and vertical stripes on two long line tunic length sweaters. Left, bold stripes are knitted into this ribbed cardigan featuring shawl collar and low-slung hip pockets. Right, a horizontal stripe effect is gained in the rib stitch knitting. Shallow bateau neck and a self belt that can be worn if desired add further interest.







Photos courtesy, Woolknit Associates, Inc.

OCT

Kn

knitte of a entire fashio

merci Macq

Ltd., W. 1 possib compl collars in a s quirin withou

applicating to goods, tically a disticuld of the dress reach isting ting to produce. The queen

is qui



A&E Cotton Division American & Efird Mills, Inc. Mount Holly, N. C.

"Custom Service to the Knitting and Weaving Trades" New York Sales Office: 350 Fifth Avenue • OX 5-3977

Also: Atlanta - Boston - Chattanooga - Chicago - Cleveland - Dallas - Detroit - Jenkintown - Kansas City - Los Angeles - Nashville - Philadelphia - Providence - Reading - St. Louis - Havana Combed - Carded - Durene® Mercerized - Dyed Yarns - Worsted - Orlon - Outerwear Blends - Textralized Yarn for Ban-Lon Garments - Industrial Sewing Thread - Circular Knit Finishing.

Knitting Equipment Developments

Electronic Machine Dispenses With Knitter Skills

MANCHESTER, England—A new approach to the problem of creating a shaped garment with all the fashioning of the designer knitted in has resulted in the development by a British inventor of a fully automatic electronic knitting machine which uses an entirely new knitting technique to produce three-dimensionally fashioned knitgoods.

The machine, which, is commercially availible, is called the Macqueen Tailor-Knitting Machine, after its inventor, Kenneth G. Macqueen, managing director of Macqueen Cybernetics Ltd., 25 Dover Street, London W. 1. This technique makes possible automatic porduction of complete garments with sleeves, collars, cuffs, pleats, bows, etc. in a single operating cycle (requiring only slight fabrication without the need for skilled knitting machine operatives.

It is claimed that the potential application of the Tailor-Knitting technique in jersey dressgoods, in particular, is practically unlimited, and there is a distinct possibility that it could change the very structure of the dress trade, since it puts dress manufacture within the reach of concerns with no existing facilities or skilled knitting operatives for knitgoods production.

The idea underlying the Macqueen Tailor-Knitting technique is quite simple. It is based on the manufacture of Basque berets of the sort which are

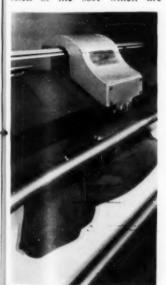


Figure 2. View of the front needle

formed by knitting wedge-shaped sections of fabric on a specialized type of single-bed flat machine, by decreasing the number of needles knitting in successive courses. The needles that are not knitting retain their loops until they are again required to knit in the next wedge-shaped section; and so section after section is knitted, forming a continuous spiral of fabric.

When enough sections have been knitted to form one complete beret, several courses of looping waste yarn are knitted in, and the next group of shaped beret blanks is begun, so that the continuous spiral of fabric comprises beret blanks joined to each other by the looping waste yarn. The beret blanks are made up into berets by looping the first and last courses together, at the same time removing the looping waste yarn.

This technique is the basis of the three-dimensional 'tailoring' which can be applied to articles produced on the Macqueen machine, for if one imagines a piece of fabric shaped in in the same way as a beret, but much larger, it would be a circular skirt. By altering the design of the wedge-shaped sections (i.e., by varying the frequency and extent of the widenings and narrowings), any shape of skirt could be produced. Further, skirts could be knitted as continuous fabric with looping waste yarn separating the individual skirt blanks, for makingup in exactly the same way as

A piece of fabric thus shaped but not looped is virtually a circular cape. For a dress or suit, sleeves can be knitted as part of the continuous fabric, but separated from the body of the garment by looping waste yarn running from hem to underarm position, the sleeves being looped on afterwards in a separate operation.

It will be obvious from this

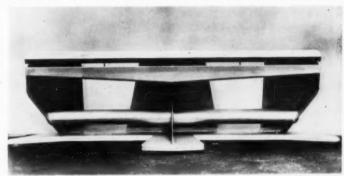


Figure 1. The chassis of the Macqueen knitting machine. The tubular member provides the main strength of the frame, which is mounted on two wide-apart feet at the back and two close-together feet at the front, forming in effect a three-point suspension which absorbs bending moments in the frame instead of passing them on to the needle beds.

that tailoring a garment at the shoulder, bust, waist, collar, etc., becomes merely a matter of incorporating the correct widenings and narrowings.

It is important to realize that such shaping or fashioning is only possible because of the method of knitting employed on the Tailor-Knitting Machine, which requires that the courses run vertically down the garment and not horizontally as in normal practice. It is at once evident that this technique goes far beyond orthodox selvedge-shaping in two dimensions and provides genuine three-dimensional fashioning with practically unlimited possibilities.

This fundamental idea for manufacturing a fashioned garment has been applied by the inventor to what is broadly a double-system V-bed flat weft knitting machine, although in many of its details it differs considerably from conventional weft knitting machines and contains numerous features which are in themselves worthy of study. Some idea of the production potential may be judged from the inventor's claim that a batch of eight 'slave' knitting machines, working under a single control unit and supervised by a single knitting machine operative per shift, could produce 54,000 dresses, for example, per year, on three-shift operation. These eight machines, together with their associated equipment, would occurv a

floor area of only 2,400 square feet.

The Macqueen Tailor-Knitting Machine is electronically controlled in every detail. This does not imply merely the incorporation of a few soleniods to initiate and terminate certain functions; the whole machine has been designed and created on sound principles of electronic

(Continued on Page 23)

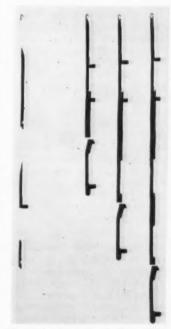


Figure 3. Silhouette of the needles, clavettes and jacks used in the Tailor-Knitting Machine, showing the three lengths of clavette and the four components of the needle (hook, hollow stem, internal sliding member, sliding member stop).

OCT

engin contr with

vices tion vised totall chani metho Th only duction Tailo vento produ ment inal f.

are production to a passes in the control which knitting control contr

to do

and l cubicl by fee

operate trolled and or can no

'slave'

The

each

varied

ring the

one p

coding desk;

ter cor

TailorThe has a same orthod machin the man feet hi a man 6 feet for do

two co



another significant technical advance—from Keystone, of course!

FUR BLENDS LOFT MATCH WITH LASTING LOFT

The color consistency and loft of Keystone-processed fur blends marks a new industry standard

Now, Keystone's unique process gives plush, high-style
fur blends a haughty, cashmere-like feel that
stays aloof and resilient. Another
important example of Keystone's
continuing progress in better dyeing to
achieve the quality you want.

Write, phone or send samples for processing . . . your inquiry will get fast personal attention.



3213-23 Amber Street, Philadelphia, Pa. • REgent 9-2575 Southern Representative: COLLINGWOOD, IBACH & CO., 205 So. Church St., Charlotte 2, N. C. TIMES

engineering. Specially-designed control systems are combined with sensing and feed-back devices so that every knitting function is carried out and supervised to a degree of accuracy totally impracticable with mechanical or eletro-mechanical methods.

The knitting machine itself is only part of the complete production unit which forms the Tailor-Knitting system. The inventor has in fact designed and produced every item of equipment needed to translate original fashion ideas into garments. Special graph and chart papers are provided for drafting the design, together with coding instructions and equipment for production of perforated control tapes. These tapes, which are placed in magazines, like films in cassettes, are loaded into a tape reader cubicle which passes the instructions contained in the perforations via a master control cubicle to a number of machine control cubicles, one of which is provided for each 'slave' knitting machine. The machine control cubicle instructs its associated knitting machine what to do, sees that it is doing it and keeps the master control cubicle fully informed so that, by feed-back control systems, all operations are precisely controlled. One tape reader cubicle and one master control cubicle can normally control up to eight 'slave' Tailor-Knitting Machines; even more could be controlled by specially built equipment. The number of machines to each tape reader cubicle and master control cubicle can be varied simply by removing cables from one cubicle and transferring them to another.

The complete equipment for one production unit therefore comprises: design drafting board; coding desk; tape perforating desk; tape reader cubicle; master control cubicle; machine control cubicle; and up to eight Tailor-Knitting Machines.

The knitting machine itself has a V-bed arranged in the same position as that on an orthodox flat bed weft knitting machine. The overall size of the machine is 12 feet long x 3 feet high x 2½ feet wide, with a maximum knitting width of 6 feet. The camming provides for double-system knitting (i.e., two courses are knitted for each

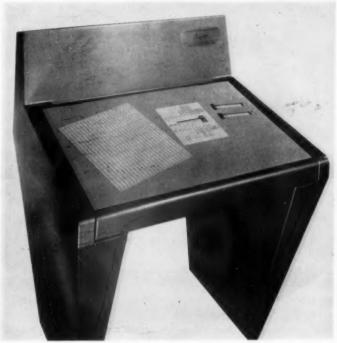


Figure 4. The coding desk, specially designed to facilitate the task of putting all the knitting instructions onto rolls of paper which will then be used to punch the plastic control tapes.

traverse of the cambox). The cambox traverse is controlled course by course, so that the cambox moves only across the actual knitting width in each course and not across the full bed width. This feature is calculated to save 35 percent of the total knitting time which would otherwise be required when knitting an average size dress, for example.

The gauge of the machine can varied between eight and 16 needles per inch simply by re-

placing the top part of the needle beds and the knitting elements. Eight yarn carriers are provided, for eight colors or types of yarn, and creel space is sufficient for two supply cones to be tied top-to-tail for each yarn. Each yarn is controlled by a special type of Macqueen automatic tension regulating unit

1, 2 or 3 needle spaces at a time up to maximum of 24

The back bed can rack over needles-12 on either side of



Figure 5. Overall view of the tape perforator desk.

a central position. Individual needle loops may be transferred from fron to back beds, or vice versa, and each needle selectively, or all needles collectively on one or both beds, can be made to knit or miss to a depth of 300 courses. Provision is also made for laying-in so that course, fancy effect yarns can be incorporated into the knitted structure in this manner if required. The knitting quality (stitch length) is adjustable through fifteen pre-set valves which can be selected whenever the cambox is at either end of its traverse.

The needles are similar in working principle to the F.N.F. compound needle in which the orthodox latch is dispensed with; each comprises a hooked part with a hollow stem in which slides a closing member. Each of these stainless steel needles operates in conjunction with a jack and a clavette of special construction.

The electronic components are housed in individual cubicles of modern design such as are now increasingly used in the electrical and electronic industries. The provision of such meticulous and comprehensive electronic control necessarily involves a lot of complex equipment, but it must be emphasized that this machine is the result of five years of intensive development, involving over 75,000 design and drawing-off hours. Apart from those units which have been specially developed for this application, the electronic components are standard items such as have long been proved reliable in telecommunications and other fields. Modular construction has been adopted so that, should any section of the equipment become defective, it can be replaced immediately by plugging in a new section, thus elimination possible production hold-ups.

Sales of the Macqueen Tailor-Knitting Machine and its associated equipment are handled by Macqueen Cybernetics Ltd., who also undertake, if required a complete design translation service, supplying to users of the machine the perforated control and pattern tapes on an exclusive basis. The company will also undertake the training of

(Continued on Page 25)

OC

the duci facti as p and serv Si sign struc pape usin dres of p fron tern men prop info for eithe tern plex forn the linea cour vidu fer. spec pose its s bina to t whi

> pap the the

> is period

each the ojac wid

spre

side teen perf

tapa

line: troll blevers patt fora are

trol

fabi



...the finest cotton knitting yarn

DOUBLE CARDED . COMBED . BLEACHED . DYED

From spinning to dyeing, CROSS Yarn is as fine in quality as human skill and technology can produce.

Buy cross yarn and see the difference cross Quality makes in your knitted fabrics.



MARION, NORTH CAROLINA

REPRESENTATIVES

Jacobs & Robson Co. 40 East 34th Street New York N. Y

Carl L. Miller & Sons 808 First National Bank Bldg., Unico, N. Y.

Carl L. Miller & Sons 7 Bala Avenue Bala Cynwyd, Po.

Oliver R. Cross P. O. Box 529 David F. Swain & C 105 W. Adams St. Chicago 3, III. J. Allison Davant, Jr 1011 Johnston Bldg. Charlotte, N. C.

469

the operatives required for producing the tapes in the manufacturer's own works, as well as providing electronic engineers and a complete manintenance service.

Starting from a garment design, the preliminary working instructions are drawn out course by course on squared graph paper supplied for the purpose, using a special design board. A dress or coat requires six sheets of paper (half front, sleeve, half back; half back, sleeve, half front), and one sheet for paterning instructions. Other garments can be drawn out in appropriate sections.

From these graph papers, the information is coded onto rolls of chart coding paper; one roll for the control functions and either one or two for the patterning, depending on the complexity of the design. The information at this stage includes the stitch length for each course, linear speed of cambox for each course, yarn to be selected, individual course lengths, loop transfer, racking, etc. A coding desk specially designed for the purpose reduces this operation to its simplest elements. A special binary octal code system is used to translate all the requirements of the design in instructions which will eventually be fed to the machine.

The rolls of coding chart paper are fed one at a time into the tape perforating desk, and the information they contain is projected onto a screen in front of the operator, who manipulates a keyboard to produce a perforated plastic tape, one for each coding chart roll. Each of the resultant tapes is of black ojaque plastic and is 51/2 inches wide with a standard 35 mm. sprocket perforation down one side. 36 holes, each one-sixteenth inch diameter, can be perforated in each line of the tape. On the control tape, the lines are 'read' in pairs, controlling the two courses of double-system knitting for each traverse of the cambox. On the pattern tape(s), the lines of perforations are set at an angle and are read in sequence. The control tape programmes the following functions:

- Knitting width of each course.
- Quality (stitch length) of fabric.

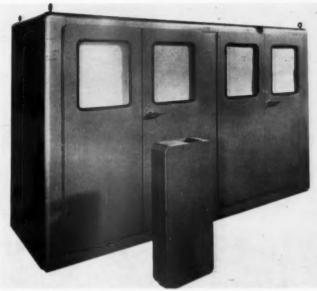


Figure 6. Tape magazine loaded with plastic tape and ready to be inserted into the tape reader cubicle, which is in the background.

- · Color or type of yarn.
- Speed of knitting; the linear speed of the cambox can be varied through 16 pre-selected speeds, ranging from zero to an average working speed of 135 feet per minute.
- Repetitive knitting; if several identical courses are to be knitted in succession, the instructions issued for the first such course are maintained for the required period and do not need to be repeated at the beginning of every course.
 - Racking or loop transfer.Beginning and end of gar-
- Choice of pattern tape reader (No. 1 or No. 2 pattern tape).

The pattern tapes contain needle-by-needle instructions over the whole width of the machine, to a depth of 150 courses per tape, and give instructions for knitting or missing as required.

The control tape and the one or two pattern tapes are next inserted in their magazines and placed in the tape reader cubicle, which is divided into control and pattern sections. The perforations in the tapes are deciphered and the appropriate instructions are passed to the master control cubicle. The control tape reader can control up to 9,000 courses on one tape.

The No. 1 and No. 2 pattern tapes issue patterning instructions across the knitting width (the control tape limits the effectiveness of these instructions only to the actual course length, which is programmed individually). On a 10-gauge machine, each pattern tape reader can control up to 150 x 1440 = 216,000 possible pattern selections. In addition, the following patterning instruction can be controlled by the pattern tape reader.

- Plain knitting on both beds.
- Plain knitting on one or other bed individually.

• 1 x 1 rib on back bed only. The next step in the control sequence is the master control cubicle, which receives the instructions from the tape reader cubicle, decodes, amplifies and modifies them and passes them on to the individual machine control cubicles. The machine control cubicles, one of which is provided for each Tailor-Knitting Machine, break down the instructions into commands to the motors, solenoids, etc., of the actual knitting machine.

The Tailor-Knitting Machine itself contains numerous features worthy of study. The whole frame is cantilevered off one back channel and mounted on four resilient feet, two at the extremities of the back and two close together at the front, forming in effect a three-point suspension. The rear feet are both below the side plates of the machine, which are welded to a substantial tubular member pass-

ing along the full length of the frame. The front feet are secured to a vertical plate in the center of the machine which is also welded to the tubular member. The weight of the machine acting on the feet produces bending moments and the effect of these is absorbed by the tubular member and not passed on to the beds.

To keep the machine length to a minimum, the yarn supply packages are mounted on conical dishes so that they are accessible from all sides, and the end of the frame are curved inwards near the floor to allow space for the dishes. The supply cones (each of 2 lb. capacity) are tied top-to-tail (two packages for each of the eight yarn carriers) so that replenishment of the creel is minimised.

The needle beds, which are in six-inch sections for ready replacement in case of accidental damage, are made of a hardanodised aluminium. They are secured to bed section carriers which in turn are mounted on longitudinal keys set in a lower bed. This complete assembly is mounted on a further plate called the sub bed, which is bolted to the frame proper and provided with pusher and puller screws for accurate alignment. The sliding action of the back bed during racking takes place on the longtitudinal keys mentioned above, which take the weight and preserve the alignment of the bed sections.

The total weight of the 10-inch wide double-system cambox is 80 lb. It is mounted on nylon-tired ball-races which hold it rigidly in position on its tracks while enabling it to glide smoothly across the beds.

The double-system camming provides for knitting or missing as well as loop transfer from front to back and back to front selectively or collectively in both directions of travel of the cambox. Mounted in the cambox. which is pressurised to prevent dust entering, are a total of 24 electro-magnetic selectors for the clearing and transfer actions of selected needles, 4 stitch cam actuators for determination of stitch length, transfer cam and solenoids, dust expeller, temperature compensatioan unit, and fluff extractors at each knitting point.

(Continued on Page 29)

Trade Drives

Menorah Dinner Oct. 30 To Honor Morris London Of Commodore Mills

FIFTY-ONE years ago, when Morris London was 14, he went to work in the knitting industry. The same year, in a place far away from him, the Menorah Home and Hospital for Aged and Infirm held it first annual dinner.

This year, October 30 at the Hotel Astor, the Home will hold its 51st dinner. The guest of honor will be one of its chief benefactors, Morris London, now president of the thriving Commodore Knitting Mills in Brooklyn, a director of the National Knitted Outerwear Association and vice-president of the Eastern District.

Expresses Pride

Reminiscing recently, Mr. London made it clear that he considers this honor one of the high points of his career. "I am proud that my friends in the knitwear industry all associate me with Menorah," he said. "When someone wants to get a person into the home and they think I can help, they phone

Mr. London works hard at his business. "They have to ring a bell to get me away from work." He is known as one of the most informed of knitwear experts.

His company makes children's wear, but he is interested in the whole industry. "Children grow up. We're all part of the world. Right?"

He believes the industry's recent growth accelerated after the Korean War. "Knits today are more popular than ever. Today it's a necessity in the wardrobe. In some parts of the country it's the biggest item. In the Southern resorts especially. Also California. A sweater there is a year-around item."

Technical Advances

To him, the most striking new factor is technological. "We have more variety in stitches than ever before. Now with your



MORRIS LONDON

bulkies so popular, you need all these stitches. We have better methods of dyeing, too - more stainless steel, improvement of the chemicals to create new colors. And the synthetics and the blends. Orlon has been the biggest thing for the industry. Without it, we would never have the goods we produce. And you have high-speed equipment that has increased production so we can make all specialties, coarse gauge to fine gauge."

Will the small companies keep

pace with the larger ones? "Why not?" he said. "The small company can do well, too. Don't get me into a small company against the big company argument. You know there's all kinds of companies-rich rich, rich poor, poor rich, poor poor. Some companies have lots of machinery but no cash. Some have not as much machinery but they have cash. So anything can happen."

He was pressed for a detailed statement on what he thought would happen.

"Progress," he said.

Yarns

Duplan Names Salesman To Its New York Office

WINSTON-SALEM, N.C.-Gilbert Conaway, formerly of Sniafibres Corporation, a subsidiary of Snia Viscosa, Milan, Italy, has joined the sales staff of The Duplan Corporation. From the New York City office. he will handle sales of processed yarns and textured yarns.

Mr. Conaway has been with Burlington Decorative Fabrics and Tennessee Eastman Corpor-

ation.

PROFITABLE PRODUCTION CONTROL

Our carefully controlled production schedules give our distributors a distinct advantage. They can definitely plan to service their customers throughout the fall and winter selling season.

This makes their last calendar quarter most active and profitable.

The Lion Knitting Mills Co.

3256 West 25th Street Cleveland, Ohio

Designers and Creators of High Quality Sweaters and Knitted Shirts for Men DISTRIBUTED TO THE BETTER STORES BY SELECTED KNITWEAR SPECIALISTS

sman Office V. C.erly of a sub-Milan,

es staff ration. office, ocessed

n with abrics orpor-

TIMES ? Why Il com-Don't ompany y argue's all ch rich, r poor. lots of . Some ery but ing can detailed thought



the loft's the thing

DRGA



Loft and beauty in yarns result in fastselling quality garments. That's why Morgan goes all-out for loft in Skein Dyed Worsted Yarns.

Specialized equipment . . . special Morgandeveloped techniques . . . the most rigid of Quality Controls . . . all work together to make Morgan Skein Dyed Worsteds the loftiest and most beautiful of them all! Why not let us prove it to you . . . soon?

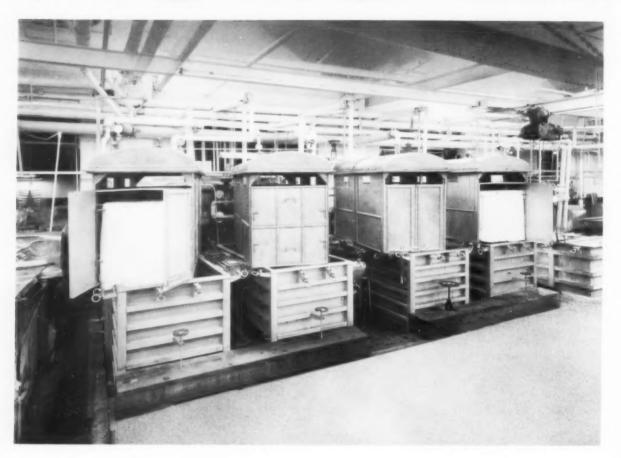


Through Service We Grow

MORGAN DYEING AND BLEACHING CO., INC. ROCHELLE, ILLINOIS

SKEIN DYEING . PACKAGE DYEING . RAW STOCK DYEING . TOP DYEING . TOW DYEING

MORGAN



a modern plant with modern facilities for better

THE MOST ADVANCED SKEIN DYEING EQUIPMENT KNOWN!

The picture above shows part of the battery of highly specialized Scholl Tanks in the Morgan Skein Dyeing Department which dye all natural and man-made fibers under precisely regulated temperature and pressure, yielding true color without sacrifice of hand or dimension. Morgan has made this tremendous investment as one more step in its constantly expanding program of better dyeservice to you . . . to give you the results you want in small lots or large, whatever the fiber.



Through Service We Grow

MORGAN DYEING AND BLEACHING CO., INC.

ROCHELLE, ILLINOIS

SKEIN DYEING . PACKAGE DYEING . RAW STOCK DYEING . TOP DYEING . TOW DYEING

OC

tern perfe dles The face

cam is d a cla knitt each third are t

Thre cam caml each patte chan

wher

At every position in the pattern tape where a hole is punched at a given place in the line of perforation, the corresponding needle is selected to knit. Needles are selected serially, as the cambox traverses the machine. by means of the electro-magnetic selectors referred to above. The jack butts pass along the face of an electro-magnetic stitch cam in the cambox; when this cam in energised, the jack butt is drawn up its face, and via a clavette pushes the needle into knitting position. To increase the time available for selection, each selector acts only on every third jack in each bed and there are therefore a total of 12 selectors in each half of the cambox. Three lengths of clavette are provided, engaging jacks in three cam tracks in each half of the cambox. Two complete sets of selectors are required, one for each direction of travel of the cambox; the signals from the pattern tape are automatically channelled to the correct set whenever the cambox changes direction. The energising and de-

energising of the electro-magnetic selectors takes place during only 3/1000ths of a second.

The stitch length cams operate in slides and their position during any traverse of the cambox determines the length of stitch formed by selected needles in that course. Each of the eight stitch cams is positioned by a unit which comprises four solenoids, each of which individually moves the stitch cam by a different amount via a lever. By combining the four solenoids in any of fifteen possible ways (the mechanism automatically adding the individual amounts of movement) the stitch cam can be made to travel from 0.041 to 0.125 inch in steps of 0.006 inch. The stitch length in any course is determined by perforations in the control tape. It will be appreciated that on the Macqueen Tailor-Knitting Machine, the stitch cam setting determines what would normally be the wale spacing while the gauge of the machine determines the number of courses per inch. bearing in mind the direction

in which the garment is created on this machine. transfer cams to be actuated, etc. If no changes of instructions

The amount of traverse of the cambox, (i.e., individual course length) is controlled in every separate course by a specially designed unit to accuracy of 0.010 inch, equivalent to about one-third of a needle space. The 35 percent saving in knitting time which this feature makes possible, as already mentioned, is a valuable commercial asset of the Tailor-Knitting method; at the same time, to accomplish such precision control over the cambox, which weighs 80 lb. and may be travelling at 135 feet per minute, is a very creditable engineering feat and is one of the most notable achievements of the Macqueen machine.

When the cambox comes to rest at the end of each traverse, a static operation cycle occurs, lasting for 0.45 seconds, during which time new instructions, if any, are fed to the machine: loop length for the next course; traverse speed; yarn carrier to be selected; racking, if required;

transfer cams to be actuated, etc. If no changes of instructions are needed, the existing instructions are maintained without alteration. When the new instructions have all been given, an interlocking series of switches closes and the cambox is permitted to begin its next traverse.

A bank of signal lamps indicates when the interlock switches have failed to close, thus providing visual indication if a control circuit is defective. All the control circuits operating these interlocks are mounted in the master control cubicle, except for those which individual interlocks are provided on the knitting machine itself. As all eight machines in a set may not be in operation simultaneously, cut-out switches are provided on each machine, and these are also wired up to signal lamps so that visual indication is made of which machines are actually knitting.

The cambox is driven by twin steel belts in the form of loops, the ends of the loops be-

(Continued on Page 34)

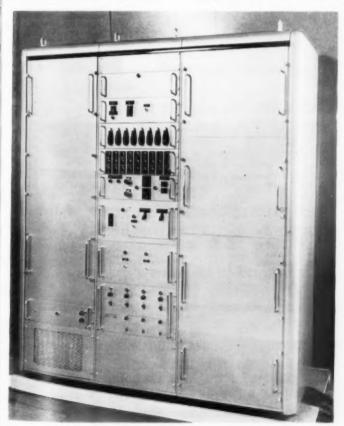


Figure 7. Master control cubicle, which receives instructions from the tape readers and passes them in amplified and modified form to the individual machine control cubicles.

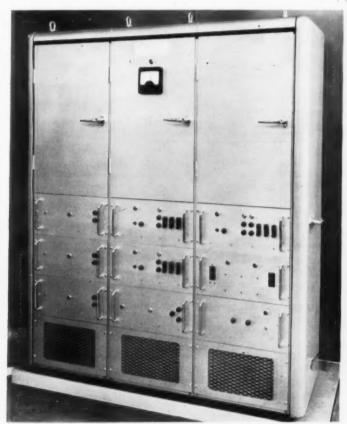


Figure 8. A machine control cubicle, which receives instructions from the master control cubicle and breaks them down into commands to the motors, solenoids, etc., of the 'slave' machines.

ba lin

tal

sha

lov the pie tifs

kni

col

app

bac

oth

stri

and che a b

bus

cut feat bers stra

I



THE FIRST NAME IN DYEING

.....and ROYAL's

RIGHT for

NAPPING & SHEARING

OF ALL SYNTHETIC
AND NATURAL FABRICS



SKEIN DYERS AND BLEACHERS OF WOOLEN, WORSTED, ORLON SPECIALTY FIBER AND BLEND YARNS

ROYAL KNIT GOODS DYEING CO., INC.

SWEATER DYERS AND KNITTED FABRIC DYERS
OF ORLON, TEXTURED NYLON
DACRON, OTHER SYNTHETICS AND BLENDS
NAPPING & SHEARING OF ALL SYNTHETIC
AND NATURAL FABRICS

ROYAL PACKAGE DYEING CORP.

PACKAGE DYERS OF ORLON SAYELLE, 6 DENIER ORLON, DACRON, ALL MAN-MADE FIBERS, WORSTED & FUR AND MOHAIR BLENDS

340 MORGAN AVE., BROOKLYN 11, N.Y.

EVergreen 7-9000

OCTOBER 17, 1960

One-And Two-Piece Maillots In Handler's Resort Line

LOS ANGELES, Calif. - Tweeds and textured knits form interesting and unusual constructions of cotton and Lastex-content fabrics in Maurice Handler's new junior swim suit collection. These materials, in addition to Helenca-processed nylon knits, are shaped into the dominant silhouette-the simple maillot accented with very

low U- and V-shaped open backs squared off at the waist-

IMES

Two-piece suits run a close second and come in a variety of styles featuring boy shorts or high-cut maillot bottoms.

Several very unusual numbers are in this collection. Among them is a suit appearing onepiece in front and two-piece in back. Peek-a-boo open slits on the diaphragm or below the waistline add interesting effects as do lowered waistlines and tabs or ties fastening bras to the shorts.

Woven and knitted cotton suits form a large grouping. A textured pink knit in the low back maillot silhouette demonstrates the surface interest of sailcloth and floral-printed sharkskin in yellow and white is used in one- and two-piece boy leg suits.

Cotton pique is seen in a one-piece sheath, daring in its low back and cut out effect on the bra; and in a duo of twopiece boy short prints. Sea motifs and floral patterns are the basic design of printed suits.

Sleek, stretch nylon Helenca knits are used in a group of one- and two-piece prints in colorful patterns. Ombres, flower appliques, and abstract florals on tweed are seen. The latter is a frosty blue maillot trimmed in white across the front and back meeting in a tie at the hipline on one side.

Two sheaths in elasticized faille are in the collection. One is white trimmed in pink with middy blouse detailing and the other is a blue and white pin-

A Lastex-content suit is interpreted in a brilliant red sheath and in a demure ginghamchecked suit, the latter having a broad white band across the bust and the semi-skirt.

Lastex knit maillots with legs cut almost to the hip bone are featured. Two outstanding numbers are a one-piece in an abstract print, and a white suit embroidered with gold floral motif in one- as well as twopiece maillots. Two sheaths in the group include another embroidered Lastex and a dahlia

Knits and stretch knits are



Imported French nylon patterned in a large floral design of vivid color on a white background is the material used in this tailored maillot with single cut-out detail on the midriff.



A white Lastex-content maillot embroidered with gold floral designs features legs cut nearly to the hipbone. This suit is also available in a two-piece version.

shown in a sheath with faille trim and also in a pale and subtle argyle plaid. A low back white knit sheath with button detailing on the bra line completes this group.

Interesting detailing is achieved in a knit maillot with buttons down the front and on the shoulder strap tabs, and in Lastex maillots with cut-out effects under the bra or on the



A frosty blue abstract print on white background patterns this stretch nylon knit. White trim crosses over the front and back to meet in a tie at the hipline on one side.



Backs plunging to the waistline and narrow, wide-set straps highlight the maillot silhouette. Seen above in an imported Lastex fabric, suit is ombred in a multi-colored floral print.

The ensemble look is popular in Handler's collection as is evidenced by groups of suits with matching or contrasting coverups which come in a variety of styles - loose, and belted, short and just below the suit length. Kimono sleeves are featured in some styles, while others are sleeveless

A white Lastex maillot teams up with a flutter tie kimono top, and shining elegance is demonstrated in a gold nylon stretch maillot with radiance topper. Another novelty in knit fabric is a multi-colored horizontaistripe top attached by a Vshaped tab to the black maillot pants and shown with a tailored top which is also assembled with a multi-color print sheath and a multi-color striped lined boy shorts suit. A cotton print sheath with elastic back and matching kimono sleeve top, and a novel sheath with daring cut-out back detailing and topper ends the essemble sequence.

Imported French and Italian fabrics are used in several suits in this collection. The French fabrics, all knit Helencas, are seen in a two-piece print with high-cut maillot shorts, a floral print maillot with daring cutout midriff, and a printed maillot. The Italian fabrics are printed Lastex in a floral pattern keynoted by an asymmetric look with the effect of growing from the left hip diagonally across the torso to end at the right shoulder. Other florals include a pattern of mixed yellow flowers and one of pink and red roses. One outstanding number is a two-piece boy short suit in pink velvet with an embossed rose-patterned deep pink stripe.

To add a touch of elegance, sequins are used to emboss three numbers. One is a pastel sheath accented with narrow vertical stripe of sequins. Another is a deep blue sheath covered with sequins. It has an asymmetric top ending in a single wide shoulder strap. A white sheath with close, random-patterned silver sequins completes this group-

The bikini made a single entry in a white and yellow polkadot design with three rows of ruffles on the bra front.

Call SANDOZ first for successful dyeing formulas on wool knitgoods

If wool's your specialty, Sandoz manufactures and stocks every important class of dyestuff for woolens and worsteds. On knitgoods, Sandoz features-

Lanasyn premetallized dyes-for the best practical combination of superior fastness with ease of application. Dyed with Lyogen SMK at the isoelectric point of wool, Lanasyns preserve the natural hand and life of wool fibers.

the Omega and Metomega Chrome colors-for raw stock, yarn, or strips. These dyes meet the most exacting demands for fastness, whether in production knitgoods, custom dyeing, or for government orders.

Choose from Sandoz' full range of colors, and profit by our broad experience-you get fast service from Sandoz, and trouble-free formulations.

Write or phone SANDOZ, INC., 61-63 Van Dam Street, New York 13, N.Y. ALgonquin 5-1700

District Offices: Charlotte; Cincinnati; Fair Lawn, N.J.; Hudson, Mass.; Los Angeles; Philadelphia.







Sw

iolet

all-fa

Swimwear

Darlene, Inc., Introduces Silk Screen Prints On Full-Fashioned Swimwear

Hand screened prints on full-'ashioned swimwear star in Darene's new line of swim suits. This design technique is espetially effective in floral paterns as demonstrated in a simole white maillot with scattered iolets covering the entire surlace.

Suits which are knitted in the all-fashion technique are entirely shaped to contour of the ody in the knitting process and reclude cut-and-sew method of garment assembly and the use f darts and tucks. Seams, kept to join front and back.

Yarns made of new fiber combinations offer interesting urfaces and textures, while anora, used in the past for sweaters alone, is now incorporated into Darlene's feature swim suit.

Angora Suit

Available in jade green, white r black, this fine gauge knitted suit is a sleek maillot featuring coop neck and back. Tiny cap sleeves and detachable velvet belt in contrasting color add interest. A lover of water, angora becomes more beautiful as the nap gradually thickens with use. A knitted-in elasticized frame helps to retain the original shape.

A New Yarn

Fiber news was also featured in Darnille, a new yarn constructed of looped nylon and covered rubber creating a velvety terrycloth effect, but with built-in assurance that the loops will not snag. One outstanding Darnille number has a large black and white checkerboard pattern, while another is seen in bright red with red and white stripes simulating a cumberbund. Darnille straps are selfadjusting to fit the wearer's proportions and thus buttons are never necessary.

All suits in the collection are one-piece sheaths and maillots and come with very low and medium backs. The most syloh-like is a very low back black maillot.

Intarsia Designs

Full-fashioned knitting also makes possible a set-in effect of deep V's, panels and bibs in contrasting colors. Often having an irregular border, these intarsias could not be created except in the all-in-one knit. Knitin designs are also used as trims around edges of suits. One particularly interesting number is a black mautot with white diamonds around the top edge and continuing onto the straps.

Widely used in this year's line are stripes in narrow or varied widths in allover design or for special effects such as suggestion of a cumberbund or belt.

Exotics Mark Sun Fashions Of Hawaii

In their all-encompassing resort-cruise line, Sun Fashions of Hawaii is incorporating many beautiful swim suits all of which are executed in cotton broadcloth with a sateen finish. High count woven cotton is the basic fabric of this line and is seen in a variety of exotic, colorful prints. Florals and batiks predominate in unusual combinations of shades emanating from the red, blue and green families. But also applied to the prints are shades of gray, gold and purple.

Titles of these prints, which in themselves are vividly descriptive, are: royal hibiscus, rainbow hibiscus, silk tone hibiscus, Tahitian, tropicana, Fiji Tapa, peach blossom, Oriental batik, Hawaiian holiday, cho cho stripe and rainbow stripe.

Applying Prints

Prints are applied by the silk screening and roller printing methods, and Sun Fashions own the world wide exclusive on most of the designs.

Most popular silhouette is the one-piece sarong with elasticized side panels. There are also one-piece suits sporting the little boy leg and gathered or halter bra. A one-piece model is also seen in a long-line sheath.

Two-piece suits come in a variety of styles including the sarong front with gathered bra, and little boy leg with halter bra. Another is seen in a little boy leg trunk and spaghetti strap halter top.

(Continued on Page 35)

NOTHING MEASURES UP TO

WOOL

MARRINER & CO. INC. BLAKE & COMPANY, INC.



Leading retail stores prefer natural WOOL because it s-p-e-l-l-s QUALITY. Down through the centuries, their customers have loved and revered wool from infancy to maturity. Knitted wools are cherished for honest performance, fashion integrity, and full measure-for-measure of value received.

You are closer to better profits when you use WOOL — a fiber that is known and respected by your customers — never confuses, never abuses confidence.

Join the stronger trend to WOOL by calling on Bonte for all your WOOL yarn needs. Let Bonte develop new yarns and blends, specifically for YOU. They have an unending variety of WOOLS in all grades, textures and types — MULTICOLORED HEATHERS, SUPERIOR WOOL-MOHAIR BLENDS, QUARTERBLOODS, AND A NEW FINE ZEPHYR. Bonte's bonus service ORIGINATES AND CONFINES exclusive colors to major mills.



N. Y. OFFICE: Mr. H. H. PENNEWELL-MURRAY HILL 3-8981

TIMES

Frog trims accent two suits. One, a one-piece little boy leg model has the frog closings at the leg, and the other, employs a frog front trim on the bodice and two pockets on the shorts.

R-M-R Dedicates Modern Plant

LOS ANGELES, Calif. — Consummating their move to new world headquarters in the San Fernando Valley, Rose Marie Reid, swimwear manufacturers, held ceremonies last week officially dedicating the new facility.

The modular design of the firm's new 150,000-square foot building features a harmonious blending of wood and glass with modern tilt-up exteriors, and is located on a special kind of industrial island in Van Nuys which takes advantage of its semi-residential setting to create a park-like atmosphere in land-scaping.

Guests touring the facilities in connection with the dedication expressed interest in the indoor-outdoor concept which introduces glass-enclosed, interior gardens into the office and factory areas. The spacious factory area and the extensive electronic data processing equipment expedite the work flow.

The centrally located pool and patio area was the setting for the brief dedication ceremonies conducted by the firm's president, Paul Haberfeld, and prefaced by Jack Kessler, chairman of the board.

Summarizing the firm's plans for its new facility, Haberfeld revealed that a work force of some 1,100 people will be recruited for the Valley location by mid-January, accounting for a payroll of approximately \$5,000,000. "We will gear for an initial season's production of 100,000 swim suits at the new plant" Haberfeld stated, "which will not tax our facilities to their potential."

A unique "ribbon cutting" climaxed the informal ceremonies when a model wearing the first swim suit produced at the new factory executed a graceful, christening dive into the pool, carrying golden scissors. While submerged, she severed a

(Continued on Page 78)

Your Reliable Source for IMPORTED YARNS

J. de SURMONT & FILS, Tourcoing (France)

Since. 1796

French Spun Knitting Yarns for Every Purpose, All Sizes, 26 to 68s — in Grades 64s to 80s. Novelty Yarns for Bulkies

Prompt Delivery

BELANGOR S.A., Edelare (Belgium)

Spinners of High Quality
ANGORA Rabbit Hair — 100% and 50%
Sizes 16 to 28, Natural and Dyed
Quick Deliveries!

Exclusive Distributors for the United States

JOSEPH GALLER Inc.

111 Fifth Avenue

New York 3, N. Y.

SPring 7-6670



DRAPER BROTHERS COMPANY

Established 1856

MAIN OFFICE CANTON, MASS. CANTON 6-0029 YARN DIVISION NORTON, MASS. ATLAS 5-7711 T H E

COMPANY





HEADOUARTERS FOR NATURAL FIBERS OF ALL GRADES

NOILS

SCOURED WOOL

LAMBS WOOL

Cashmere

ANGORA

Camel Hair

Rabbit

Vicuna

Mink

Silk

Muskrat

Flax

Raccoon

and other fur fibers



SPECIALISTS IN "TOP" FOR BULKY WOOLS

Ready to supply your immediate wool top needs for back-to-school production.

THE



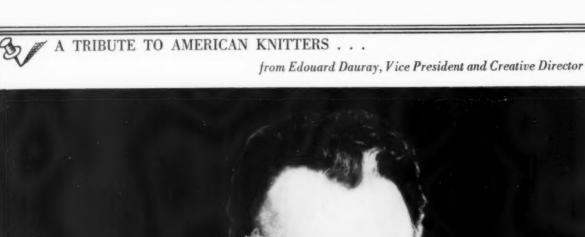
COMPANY

INCORPORATED

opmakers_

Boston 10, Mass.

Woonsocket, R. I.







ANYTHING IMPORTED ... America Makes Better

American knitters deserve tremendous recognition for developing a booming knitwear industry that has met with phenomenal success. In the true tradition of this country, they have created knitwear fashions for the American way of life . . . styles with a meaning that reflects leadership and performance . . . knitwear that inspired a loyalty and great devotion from satisfied customers.

Known for their meticulous high standards of production, unmatched by any country in the world, they have an enviable record for suppyling quality merchandise, backed by reliable deliveries . . . uniform sizing and colors . . . and, very important, excellent performance on reorders.

French Worsted takes pride in the part it has played in this success story by supplying leading knitters with all their wool yarn needs, in the greatest variety of textures suitable for flat knits, fine zephyrs, bulkies, and novelties.

Selling Representatives

L. R. MICHELSON The Irving Cohen Yarn Corp. 130 Palmetto St. Brooklyn, N. Y. Hyocinth 1-1600

BARNEY KRON Harry Schwartz Yarn Company, Inc. 868 Traction Ave. Los Angeles 13, Calif. Madison 4-7644

Pennsylvania and Midwest: CHARLES J. DAURAY 7850 Oxford Ave. Philadelphia 11, Pa. Pilgrim 2-8608

Export Agen FRED F. BIEL F. W. Biel Corp 129 Pearl St., N. Y. 5 Bowling Green 9-4571 Cable: EFBIELUS



Established in 1906

French WORSTED COMPANY

and Dauray Textiles Division Woonsocket · Rhode Island



MAGIC WORDS WITH KNITTERS "FRENCH WORSTED"



says L. R. Michelson of The Irving Cohen Yarn Corp., Selling Representative for THE FRENCH WORSTED CO.



American Knitters ARE THE GREATEST IN THE WORLD

We're proud of our role in providing knitting yarns—the very essential raw materials-that have chalked up a successful page for knitwear in fashion history. We make it our business to sell on the basis of highest quality and prestige.

Leading knitters turn to French Worsted because:

- 1. Grade for grade, they are supplied with yarns of the very highest quality.
- 2. Yarns are always uniform. Knitters know that this quality never deviates from order to order; from season to season.
- 3. "Never overself," is our motto. Most important to us is to supply service when it is most needed. Since our accounts are deliberately selected, customers know that they can count on prompt service, even at the height of the season.
- 4. French Worsted is staffed by experts all under one roof who have enormous versatility. It is stimulating to watch them perform, creating yarns on demand for every need, for every texture and surface interest.
- 5. Sample needs are willingly supplied to our customers.

THE WORSTED COMPANY and Dauray Textiles Division

Woonsocket · Rhode Island

Selling Representatives

L. R. MICHELSON The Irving Cohen Yarn Corp. 130 Palmetto St. Brooklyn, N. Y Hyacinth 1-1600

BARNEY KRON Harry Schwartz Yarn Company, Inc. 868 Traction Ave. Los Angeles 13, Calif. Madison 4-7644

Pennsylvania and Midwest: CHARLES J. DAURAY 7850 Oxford Ave. Philadelphia 11, Pa. Pilgrim 2-8608

Export Agent FRED F. BIEL F. W. Biel Corp. 129 Pearl St., N. Y. 5 Bowling Green 9-4571 Cable: EFBIELUS



Established in 1906

for teri feat

tion

very lots zon

knitt suitt unid and V a bi with cent one whii refle Free blue are mai

back

is no

suit



We are the OLDEST and ONLY yarn sales agency that can completely service the requirements of all branches of the knitting industry.

FOR THE SWEATER AND OUTERWEAR TRADE we have all types of natural and dyed yarns on the woolen and worsted systems, including very fine worsted yarns for the most particular suit manufacturer. Also mohair, fur and angora yarns, Orlon, Dacron and all synthetics.

FOR THE UNDERWEAR TRADE we have the finest merino and all wool yarns, cotton and Firestone's Contro elastic thread.

FOR THE HOSIERY TRADE we have a wide range of blends in natural and color including cotton and synthetics.

We represent the following mills, all dedicated to the manufacture of quality knitting yarns, competitively priced.

ARGONNE WORSTED CO	Manville, R. I. and Ellsworth, Me.
THE ALLENDALE CO.	1
THE BONIN SPINNING CO	
WORCESTER TEXTILE CO	
FIRESTONE RUBBER & LATEX PRODUCTS CO	Fall River, Mass.
CONCORDIA MFG. CO., INC	
BEAR BRAND HOSIERY CO. (YARN DIVISION)	Kankakee, III.

Dercy of Legge

Established 1886

683 Atlantic Ave., Boston 10, Mass. Llberty 2-7570
432 Park Ave. South, N. Y. 16, N. Y. MUrray Hill 9-8496
8 Cynwyd Rd., Bala Cynwyd, Pa. MOhawk 4-1950



 222 West Adams St., CHICAGO 6, ILL.
 CEntral 6-8985

 18 Don Ave., 'East Providence, R. I.
 GEneva 4-1622

 710 W. Market St., Greensboro, N. C.
 BRoadway 5-3136

Swimwear

IMES

Elon Of California's Line Is Nautical, Naughty And Nice

By MARIAN GUNTRUP

LOS ANGELES, Calif. — Three different approaches to swimwear fashion are used by designer John Weitz for Elon of California, accenting his "playsuit approach to swimwear." He has termed the groups Nautical, Naughty and Nice. The first group features a definitely sea-going look in styling and highlights red, within and blue color combina-

white and blue color combinations in a range of fabrics.

Knits are seen in a pair of very simple, low-backed maillots, one in blue or red horizontal stripes on white, the other in red, white and blue horizontal stripes. Helenca stretch knit is a standout in a tank-top suit in blue and white stripes with ankle-length pants. This unique suit comes in both one-and two-piece styles.

Woven Lastex is featured in a brilliant red one-piece maillot with white button trim reminiscent of sailor pants and in a one-piece maillot with a red and white striped knit dickey insert reflecting the influence of the French navy. Red and white or blue and white regatta stripes are shown on a satin Lastex maillot with a half-belt in the back

A variation of the boy leg is noted in a red and white vertical striped cotton one-piece suit with tab shoulders, and in a red and white striped cotton, also shown in a two-piece style coordinated with a red bosun's shirt with white striped trim. White Arnel twill trimmed with red and white striped satin is the fabric basis for a belted, onepiece boy-leg suit.

Brief two-piece styling, fake fur fabrics, and high-leg, low-back maillots are the theme of the Naughty part of the collection. Fake, high-pile green or purple leopard fabrics fashion one- and two-piece styles with high necks front and back. These are daringly slashed from the neckline tie to below the bust-line

White nylon and cotton stretch swimmable terry cloth is teamed with very brief, practically weightless maillots with high-cut legs and low-scooped tank tops.

Two suits sport the highnecked treatment to contrast with high thigh cuts on maillots. One, a one-piece tweedy woven Lastex with a low back, buttons on the bustline; the other, silktype cotton print, comes in a two-piece brief halter-neck suit with matching hooded beach cape.

Cotton prints included a leopard pattern printed on a cotton cord maillot, and a two-piece boy-leg abstract print topped by matching beach cape.

The Nice collection is characterized by playsuit styling, tailored toppers, removable short skirts, novelty fabrics such as flannel and chambray, and a "covered up" look.

Contrasting panels utilized in several suits in this group, such as two suits in broad all-around vertical contrasting panels in a maillot and a two-piece shortsleg model, both with solid color piping. A one-piece Lastex maillot features a broad contrasting center panel and a one-piece Lastex sheath is highlighted by a broad contrasting band around the top and contrasting panels full-length down each side of the suit from under the arms.

Printed Lastex is used in a one-piece sheath with V-neck

and deep V back, a maillot with matching Bermuda length cotton shorts, and a plaid onepiece shirtmaker with coveredup front and back.

Solid pastel Lastex is unusual in a maillot with a high, inverted V top tipped with a huge button and tied around the throat with spaghetti straps. The top can be tucked in for sunning.

Arnel twill is employed to create a one-piece swim suit with high halter neck in front, deep V in back, and matching short tennis skirt, while denimweight chambray is utilized in a two-piece blue-jean styling, the two pieces secured at the waistband by a broad, red swimmable belt.

A high-banded neckline front and back is seen in a one-piece cotton boy-leg suit with removable overskirt.

Mission Valley poplin is featured in a pair of suits — a two-piecer with high buttoned back and button detailing on bra front, the other a belted one-piece model with a high front and buttoned tabs in the back. Both come with matching wrap skirts.



Details on the poplin two-piece suit above include a banded waist and boy shorts on the lower half. The halter bra is elasticized on the bottom and is held up by wide buttonfastened straps.

Wide panels design the below conservative two-piece Lastex-content suit. Note the boy shorts and slightly raised waist on the trunks, and outlining on the top section.





Narrow horizontal stripes encircle this knitted maillot featuring scoop neck and very low back. Front seams add a design effect and softly shape the suit.

Center of interest on this sleek knitted maillot is the striped dickey running the full length from squaredoff neckline to waist. High cut legs and plunging back complete the suit.



An open letter from Caron president John Caron



Wool saw some lean days after the Korean War debacle. Wool prices soared, knitters became wary, and the new synthetics filled the vacuum.

Wool has now come back into its own . . . and rightly so! What synthetic has ever been developed with *all* the characteristics of wool? What man-made fiber breathes so that it is warm in winter and cool in summer, has the warm friendly feel of wool, goes day and night without sagging or bagging, reshapes itself overnight by hanging, even washes so beautifully in today's modern cool water detergents?

And the figures prove it! Use of wool in men's sweaters increased 100% in the past five years, and the increase in women's sweaters has been substantial, although not as spectacular. Many better-styled knitwear lines are today dominated by wool.

Truly wool is the "miracle fiber" of the ages. We at Caron salute its return to prominence!



IMES

Ladies' And Misses'

Knits Of Silk, Cotton And Wool Shown In Korrigan Lesur, Avagolf Collections

Silk, cotton and wool knits form the basis of collections by Korrigan Lesur of France and Avagolf of Italy. Korrigan Lesur is featuring pure Merino wool while Avagolf's creations are constructed primarily in pure silk.

Silhouette news is in the look of ease which does not necessarily connote the casual, although quite naturally the entire sportswear collection is along casual lines, and many daytime dresses follow suit. There is, however, a definite distinction between clothes for daytime or sportswear and those for after five, whether they be slacks or backless dress. For example, slacks and coordinating tops designed for at-home evening entertainment are anything but casual in styling and fabric construction. The dressier knits are along relaxed, carefree lines for comfortable wear and easy care. but do not begin to suggest casuality.

Interesting details are on solid color dresses having belts edged or striped in contrasting colors. Yoke interest is achieved through horizontal lines and button trim, and necklines are round, jewel, slightly raised, scoop and slash. The small bow is used extensively on belts, collars and yokes.

Variety In Sleeves

Raglan and full-fashioned sleeves predominate and range from tiny caps to bracelet length.

Skirts are straight or slightly eased, pleated and gathered. Many are topped with cardigan jackets and in some cases three-piece ensembles are made with the addition of a blouse including the tunic, middy or sleeveless overblouse.

Colors range in tone from shocking pink to dignified black and neutral browns, and beiges. New colors are a pinkish mauve known as mauvequartz and a

(Continued on Page 47)

FINE LAMB'S WOOL

SCOURED · CARBONIZED · COMBED



Processed especially for knitting yarns

FRED WHITAKER CO.

PHILADELPHIA . BOSTON



112 West 34th St. New York 1, N. Y. CHickering 4-4100 222 Summer St. Boston, Mass. HUbbard 2-0069 WORSTED-ZEPHYR SPECIALTY YARNS

SPECIALTY FIBERS
AND BLENDS

Natural, Heathers and Slubdyed Colors

Yarn Conversion Chart Available Upon Request

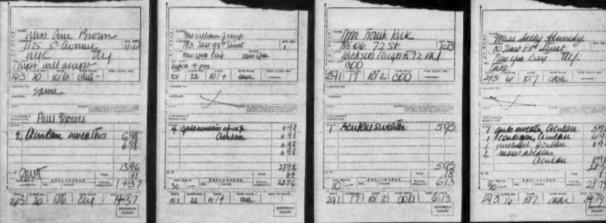
MAINE SPINNING CO.

SKOWHEGAN, MAINE

AMES TEXTILE CORPORATION

LOWELL, MASS.—RICHMOND, ME.—CLEVELAND, GA.

The board False. 34 Sint Str. 10. Like to line 272 10 10 10 10 10 10 10 10 10 10 10 10 10	Hurs Anna United son 14 was 90 Share Mus May 200 182 17 10/7 care	HAS HOWNED THEY'S ZEO ENDES DE DEUS 10 HS. 1000 1001 1001 1001 1001 1001 1001 10	HIOD ONE BADA BROOK SEE EAST BO'ST 2 NYC 20 NY SALE WHI OCCOPT BE HI 9/20 COMM -
Dadon 795 Daton 708 Daton 100 Daton 100	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	# SMILLER SLAWFITS 698 RELIEN 598 798 2072 2072 2073 161 15 102 088 2773	7 PORIAN SERTERS 796 648 1496 1643 96 14 976 (18)
ONE PRO	OF OF TH	= MARKE	Muss belly Humidy



FOR SWEATERS KNIT OF ACRILAN* IS:



no pr

that's

the co

HOW FAST STORES' SALESBOOKS



...RUN OUT

Not of stores just weren't prepared for the traffic that sweaters of Acrilan acrylic fiber are stirring up. But that's no problem. They can always order more sales books. And they can always reorder sweaters of Acrilan. In fact, that's exactly what stores throughout the country are doing right now.

Alert knitters who were prepared

for big business in sweaters of Acrilan are cleaning up. They're knitting high-fashion styles, in flat knits and textures in soft, machine-washable Acrilan. And are they selling! If you want to get your share of the profits in sweaters of Acrilan, get in touch with The Chemstrand Corporation, OX 5-5100. Ext. 312.

Chemstrand has licensed this
"A"-Acrilan trademark as an
ingredient trademark for those
fabrications that provide utility
styling and consumer, value
In order to obtain a license
to use this trademark, the
fabrications must meet
ceffain tigd specification
as established by The
Chemstrand Corporation

ACRILAN

CRYLIC FIBER

'Reg. T M's of Chemitran

Chemstrand makes only the yarn; America's finest mills and manufacturers do the rest.
PLANTS: ACRILAN® ACRYLIC FIBER—Decatur, Ala.; CHEMSTRAND® NYLON—Pensacola, Fia.

int

pla

bik

abl

afte

WORSTED

means our



the standard of the trade



Special Whites

from specially selected wools in 2/15, 2/18, 2/20

Natural skeins & cones Dyed skeins & cones in 2/11, 2/15, 2/18, 2/20

All of the above yarns are available for immediate delivery from our warehouse.

Also: TURBO ORLON in 3 denier single & 6 denier 2-ply yarns

SPUNRITE TO KNITRITE

DAVIS YARN CO., INC.

370 Hart St., Brooklyn 6, N. Y.

21/2 size

Phone: GLenmore 5-1600

When you think of knitting yarn, think of DAVIS YARN.

A Leading Supplier for Over 40 Years.

VICUNA

grassy green called fines herbs. Blue is better represented than any other color in pale, bright and navy shadings.

Solids predominate though striped effects are used all over as well as for special touches.

Flat knits are seen in many of the creations, but new and varied textures are very impor-

Textured Knits

An illusion of lace is knitted into Avagolf's silk emerald green top which features halo neckline, dropped shoulder and 3/4 sleeve. This top is worn especially well with silk knit slacks.

Cotton is also textured to look like lace in a mandarin neck dress detailed with tiny bows running the length of the throat placket. The lacy knit is also incorporated into a tunic with side slashes worn over a bare bikini.

Textured silk knit is adaptable to all types of clothes in this collection, from slacks and coordinated tops to elegant after-five dresses. One of these is in mauvequartz silk and has a cardigan jacket and straight

Wool knit is seen in a nubbly

effect in a coral short sleeved dress ensembled with matching jacket. The dress is ribbed down the front and buttons run between the ribs.

Embroidery Effects

Special effects are created by tone-on-tone embroidery as well as contrasting embroidery in sound wave and sunburst patterns. A white cotton knitted top to be worn over shorts or slacks is banded in the soundwave pattern and features a sunburst center motif. Tone-ontone is to be found on many numbers including a shorts and sleeveless top outfit in blue by Avagolf; a silk on silk sheath with shallow neck and in a mauvequartz cardigan worn over a plain skirt. Another ensemble along this line is a turquoise silk cropped top, covered with allover heavy silk embroidery worn with a plain matching pleated skirt. A very elegant at-home ensemble is a shocking pink silk knit tunic top over tapered slacks of the same material. The entire outfit is embroidered in pink silk.

Checkerboard knits also make news in a black and white silk (Continued on Page 49)

SPECIALTY woolen

ICHEST NNING CORPORATION

WINSTED, CONNECTICUT

ALPACA

ANGORA, CAMEL'S HAIR, CASHMERE, LAMBS WOOL, MOHAIR

Specialists in Quality Woolen Yarns for more than 75 years

FOR SAMPLES AND QUOTATIONS

NEW YORK: HUGGINS—CLELLAND, INC., 1440 Broadway, Bryant 9-8752 PHILADELPHIA: FRANK L. DURR, 1207 Western Savings Fund Bldg., Kingsley 6-4855

PROVIDENCE: RAYMOND J. WALSH, 22 Edison Ave., GAspee 1-6694 CHARLOTTE: COLLINGWOOD, IBACH & CO., 205 S. Church St., EDison 2-1428 TENNESSEE: JOSEPH S. PERSINGER, Lookout Mountain, Taylor 1-2170 CHICAGO: GEORGE W. VENESS, 222 West Adams St., STate 2-8962

WOOLEN, WORSTED YARNS

Spun for tomorrow's fashions with ... YESTERDAY'S REGARD FOR QUALITY

Established 1862

I&H CLASGENS CO.

New Richmond, Ohio

oc

sim into Trii mat

d'od skin con with

cor

mai

the

and

fallspun yarn blends are previewed

are previewed for perfection

Yes...in Fallspun's quality-control system, every custom yarn blend is actually knitted to assure perfection on every count. These "previewed" samples are carefully filed . . . enabling us to duplicate exactly every Fallspun blend ever created.

For next season's newest blend . . . or a proven seller of past seasons . . . Fallspun is your best woolen system yarn investment.

Call now and let us prove it



FALLS YARN MILLS, INC.

Established 1904

Woonsocket, Rhode Island POplar 9-9880

SELLING AGENTS:

Stanley Porter, New York City • Pfizenmaier & Kirkland Co., Boston Mass. • W. J. Miller, Philadelphia, Penna.

C. L. Miller & Sons, Utica, N. Y. • Anthony, Cheatham & James Yarns, Inc., Burlington, N. C. • D. F. Swain Co., Chicago, III.

cardigan banded in black to match the skirt. Slacks of black and white checks with matching pullover trimmed in black further demonstrate the checked texture.

A dickie of contrasting color simulating a pullover, is knitted into a cardigan-like sweater. Trim on the "outer sweater" matches the dickie to create unbroken continuity. This trompe d'oeil sweater and matching skirt come in various color combinations including black with toast and red with navy.

The look of ease has been incorporated into one-piece dresses, coordinated skirts and sweaters and ensembles of jacketed skirts and dresses. Silk is primarily used in dressy and afterfive outfits, though several of these have been executed in fine gauge knitted wool. Creating an after-five look in a wool dress is possible through the use of decollete necklines, V- or scoopbacks or nearly backless dresses. single or double shoulder straps and also tiny cap sleeves. Shirring on the bodice or neckline is flattering and adds a touch of elegance.

One-piece daytime dresses

are shown in wool as well as silk. Cool white wool with patch pockets just below the waist is cinched in a striped belt.

Attendance High; But Business Off At Buffalo Show

BUFFALO, N. Y.—Attendance was as good or better than last year, but business was sluggish at the holiday and early spring market of the Women's Apparel Club of New York.

Salesmen for knitted outerwear lines reported that spotty early fall retail business in the Buffalo area reduced fill-in buying at the market. However, they expect sales in the fourth quarter to run at least as strong as a year ago.

Unseasonably warm weather in September cut down sweater sales at the market, but knit dress sales were fairly brisk. Retailers wanted a better indication of fall business before making holiday commitments.

Swimwear for cruise and resort wear was selling but merchants were moving cautiously

(Continued on Page 51)

SCHAEFFER, PFIZENMAIER & KIRKLAND

FEATURING

YARNS

FOR THE

KNITTED OUTERWEAR TRADE

WORSTED — ZEPHYR — SYNTHETICS — BLENDS

FROM LEADING SPINNERS

NEW YORK

51 W. 35TH STREET LOngacre 3-0479

PHILADELPHIA

3701 NO. BROAD STREET

BOSTON
246 SUMMER STREET

BAldwin 3-6295

Liberty 2-9660

LOUIS F. SCHAEFFER—JOHN L. PFIZENMAIER

EDWARD V. KIRKLAND

LOUIS S. BACHER

KENNETH B. MAC KAY

PREMIER FRENCH ZEPHYR

1/20's to 2/60's

ZEPHYR HEATHERS FRENCH SPUN 11½'s TEXTRALIZED® NYLON

For High Quality BAN-LON® Products

TOW-HUE TURBO ORLON® ACRYLIC

6 Denier Dyed Orlon on cones

SUPERIOR 7 STOCK MOHAIR BLENDS

The IRVING COHEN YARN CORP.

—French and American Spun Yarns—

130 Palmetto Street

Brooklyn 21, N. Y.

HYacinth 1-1600

OC

Bu Fo

App show social plea busing to Day dow earlito h Sc Californ preference

from

chos beyo

form

your

varie

rics;

time

ETS .

fur b

HOB frenc mohe

cash

LE PI

FILAT J. LE 1009

1431 Philad Canad

T

Your year hound source

Winona...

for 100% cashmere yarn

Wilson...

for fur blend, lamb's wool and specialty fiber yarns

Colonial...

for dyed to match and coordinate skirting fabrics

Sales Representatives

PAUL A. BARKER 1182 Broadway New York, N. Y. MUrray Hill 9-0422

W. H. HUTCHINSON 222 W. Adams St. Chicago 6, Illinois FRanklin 2-0224 Teletype CG 2127

FREDERICK P. TOLNAI 819 Santee Street Los Angeles 14, California MAdison 2-5777

WINONA TEXTILE MILLS, INC.

WEST 65th and BARBERTON . CLEVELAND 2, OHIO . ATlantic 1-3200

THE WILSON TRADING CORPORATION

1440 BROADWAY . NEW YORK 18, N. Y. . Wisconsin 7-2176

COLONIAL WOOLEN MILLS, INC.

WEST 65th and BARBERTON . CLEVELAND 2, OHIO . ATlantic 1-3200

For your convenience Teletype NEWYORK 1-4275 CLEVELAND CV 875

Ladies' And Misses'

Buyers Shy Off Fancy Holiday Wear, Favor More Lasting Styles At Show

PORTLAND, Ore.—This year's Holiday Market of the United Apparel Clubs of Oregon for the first time consolidated the showings of the Pacific Apparel Association, Portland Apparel Association and Rose City Apparel Association, a development that pleased exhibitors and compensated somewhat for disappointing

business. It was felt that holding the event on the long Labor Day weekend kept attendance down. A market held somewhat earlier in Seattle was reported to have been very successful.

Sales representatives from California prefer the end of the week for a market but those from Oregon or Washington prefer the beginning. A compromise is expected.

Holiday buyers turned away from the fancy merchandise and chose apparel that can be used beyond the holidays.

In knitwear, novelty and informality were offered for the young wearer.

Texture appeared in a great variety, including cut pile fabrics; long and shaggy nap, sometimes brightly colored; shorter, (Continued on Page 53)

Attendance Is High At Show In Buffalo

(Continued from Page 49) and selecting more carefully than in previous years.

As is usual in markets, some salesmen were busy, others were idle most of the time.

Some retailers were making limited purchases for spring, but most stuck to holiday buying. Their plans indicated to promote sweaters of many fabrics, styles, colors and patterns. Brisk back-to-college and career girl sales in sweaters during late August and early September pleased them.

The slow start in fall business has not dampened hopes. A sharp pickup is expected when cooler weather sets in.

TECHNICAL HELP AVAILABLE

At no cost to you, a technical service specialist will come into your plant and apply Duron Permanent Mothproofing to your woolens. A free mothproofing determination test and survey will also be made. Write Bart Gilbert

DURON CORP., Richmond Rd. at Miles, Bedford, Ohio . . . or call collect AX. 2-7990 for your appointment.

DISTINCTIVE SPECIALTY

ETS J. J. PETIT, Verviers, Belgium fur blends and angora—cashmere and synthetics finest lamb's wool yarns; 100% shetland yarns,

HOBRON SPINNING CORP.—

french system worsted yarns "bulkspun 7s", mohair blends, alpaca yarns, "THERMOGEN"* medicated wool yarns

ROBERT CLOUGH (Keighley) Ltd., Grove Mills, England—cashmere, mohair, alpaca and rare fiber yarns on the worsted system

LE PEIGNE S. A. Malines, Belgium french-spun zephyr and novelty twist yarns—white and vigoreux

FILATURE RAYMOND BAUDIN, Saumur, France J. LEWIT & SONS, Petah Tikva, Israel 100% French angora and blends yarns as only century-old European craftsmanship can make them . .

available to you at the same convenient terms as domestic yarns

- FUR BLENDS—Lamb's Wool with Angora, Muskrat, Rabbit, Cashmere, Silk or Synthetics
- MOHAIR BLENDS WORSTED, ZEPHYR AND BLENDS, 100% ALPACA
- . 100% AUSTRALIAN LAMB'S WOOL
- . 100% SHETLAND & SHETLAND BLENDS
- All types of CHENILLES, NOVELTY TWISTS, TWEED YARNS
- 100% FRENCH ANGORA—AND BLENDS

LEADING SUPPLIERS TO MANUFACTURERS OF HIGH GRADE KNITWEAR

hohenberg company

1431 BROADWAY

NEW YORK 18

Philadelphia Office: HARRY H. HAFF, Adams Ave. & Leiper St. Canadian Office: HOHENBERG CO., INC., 7080 Hutchison St., Montreal PE 6-4260

CUmberland 8-3732 CRescent 4-8284 *Pat. Off. U.S. Reg. Trade Mark

OCT

mor fake The were in I light able said tail

lege wive wea dina ley

fere the

clip

Orle

favo iten

cott read

rega

nate

wit

effe



REGENT **PRESENTS**

The machine that's creating a sensation in the European fashion industry with luscious brushed yarns (mohair & wool, mohair blends, synthetics & wool).

The perfect machine for Knitters, Spinners and Novelty Yarn Manufacturers specializing in quality products.

Contact us today for further information and yarn samples.

MACHINERY CORPORATION

110 West 40th Street, New York, N. Y. · BRyant 9-6773

WE ALSO HAVE AN EXTENSIVE LINE OF ALL TYPES OF DYEING AND WINDING EQUIPMENT:

Package, Raw Stock, Tow and Top Dyeing Machinery
 Extractors • Dye Becks • Scouring Machinery • Sample Dyeing Equipment
 High Pressure and Temperature Tricot and Beam Dyeing Machinery
 Jigs • Pads • Open Width Forced Jet Washing Machines

• Winders (Cone — Skein — Dye Packaging) • Doublers

more subdued velour types, and fake fur.

The color range was wide. The purple and lilac shades were, as expected, very popular in nearly all lines. The very light pastels were less noticeable this year than last.

Novelties were in demand, said Vin Vaughn, representing Tee Tops Sportswear. The retail customers were mainly college girls and the young housewives who like to wear sportswear around the house.

A group of cotton knit coordinates in a lilac-and-white Paislev pattern moved well in this line. A selection of tops was offered, with pants or skirt, but the pants outsold the skirts.

Hooded tops and various clipped, textured fabrics like Orlon "plushies" enjoyed much favor with children. Another live item was the "knee-tickler" in cotton knit-full, pleated skirts reaching just above the knee.

'Swiss velours' of Orlon, for sports or lounging, were highly regarded. Pants were coordinated with a choice of tops, including a bateau neck and one with a collar and open V-placket

High schoolers are going for the striped and hooded tops, college girls for solid cotors, Mr. Vaughn said. "Lavender shades are excellent. Your burnt orange or coral is coming up strong too for the cruise wear season.

Novelties also were featured by Le-Roy Knitwear of Los Angeles and Sport-Time of California represented by Phil and Helen Codell.

Big cowl necks are very popular with the college girl, the Codells said. Horizontal stripes were favored in the cowl styles, vertical stripes were in the button models and conventional slipovers. Both high school and college girls like the crew neck.

Le-Roy Knitwear is said to have been first to make the very bulky, wide-striped Monster sweater, which were introduced at the University of California. It is still popular, made up in the colors of various schools.

Fake fur was a big item for the Codells. A popular jacket of simulated leopard with curving notched collar and band in black was moving into leading stores in Portland and Seattle.

(Continued on Page 55)

EMKAY ... CHEMICALS FOR YOUR

TEXTILE PROCESSING

EMKAY MANUFACTURES:

- Emkabase Emkacide Emkafix Emkafol Emkagan Emkalare Emkalite Emkalon Emkalon Emkapen Emkapen Emkapen Emkapen Emkapen Emkapen Emkasize Emkasize Emkasize Emkasize Emkasize
- Emkaterge Emkawate Emkazyme Rexobase Rexobond Rexocican Rexoduli Rexofos Rexogei Rexogum Rexole Rexolene Rexoloid Rexolube
- Rexopene Rexopon Rexoscour Rexoslip Rexosolve



Levels out streaks!

Corrects shaded Selvages!

EMKATEX SF

WRITE FOR YOUR DATA SHEET AND FREE SAMPLE TODAY

SPECIALISTS FOR ALL PHASES OF TEXTILE PROCESSING

319-25 Second St. Elizabeth, N. J.

> ELizabeth 2-7053 ELizabeth 2-7695

THE KENT MANUFACTURING COMPANY

CLIFTON HEIGHTS, PA.



DRY SPUN ZEPHYR and WORSTED YARNS

SINGLE AND PLY NATURAL AND SLUB DYED COLORS

SELL DIRECT AND THROUGH

JOHN F. STREET & CO. New York Metropolitan District New England States Southeastern States

TEXTILE YARN COMPANY Chicago and the West

001

ottes thetie Buy mair said.

Othe purp light favo its b

card wan

fere

fiber back

fabr spac grou Alex Knit long shak knit and N



THE DUPLAN CORPORATION. WINSTON-SALEM. N. C.

MERRITT COMPANY

40 E. 34 ST., NEW YORK 16, N. Y. — LEXINGTON 2-0797 — TT#NY1-1758

C. J. McALAINE

ONE HIGHLAND AVE., BALA-CYNWYD, PENN, — GREENWOOD 3-0633

MOHER ASSOCIATES

44 WASHINGTON ST., WELLESLEY HILLS 81, MASS. — CEDAR 5-9420 — TT#WLSLY-971

GEORGE W. VENESS

222 W. ADAMS ST., CHICAGO, ILL. — STATE 2-8962

when Duplan **TEXTUR-ENGINEERS** your yarns

Because Duplan's textur-engineering gives you a proven specialization of method unequalled by other throwsters and backed by "firsts" in developing stretch yarns for hosiery; by famed experience as the world's largest throwster; by expert technical assistance to its customers in resolving special problems.

Let Duplan do it:

Saaba, Superloft, Fluflon, Helanca, Textralized (for Ban-lon garments



WORLD'S LARGEST THROWSTER

- 3 THROWING MILLS
- Winston-Salem, N. C. Kingston, Pa.
- · Cleveland, Tenn.

so were Le-Roy's jersey cul-

Sentiment for wool and synthetics, mostly Orlon, in sweaters, seemed equally divided. Buyer decision was based mainly on price, Mr. Codell said.

White, as always, was their biggest seller for the holidays. Other popular shades were purple, sage green, gold, starlight blue and beige. Black was a favorite in turtleneck styles for its beatnik look, and in a bulky cardigan with a good-sized collar. Both white and black are wanted in bulkies.

Sport-Time of California offered a number of items in various fake furs with pile of acrylic fiber or rayon on cotton knit backing, which were selling well. An outstanding number was a fabric featuring black spots spaced out over a white background.

Novelties in George Koretz's Alex Colman and Colebrook Knitting Mills lines included a long beatnik look sweater in a shaker stitch and Orlon shaker knit slipovers with long sleeves and boat neck.

Mr. Koretz said fur blends

were coming back stronger than ever. Fur blend intarsias were offered in ceramic blue, pima gold, eucalyptus green, horizon blue, strato gold, comet green, a beigetone white, and black. The same colors were offered in Angora, which had been strong for back-to-school trade. At that time, Koretz said, sales were divided about equally between Angoras and fur blends but at the holiday market, the ratio was running about 4 to 1 in favor of the wool, rabbit and nylon fur

Small Line Of Sweaters

An interesting newcomer which appeared successful, was the small, but selective line of sweaters with matching skirts in sizes 42 to 48, for Peg Palmer Co., shown by Ernie Bryan. Lilac, white and blue ran onetwo-three.

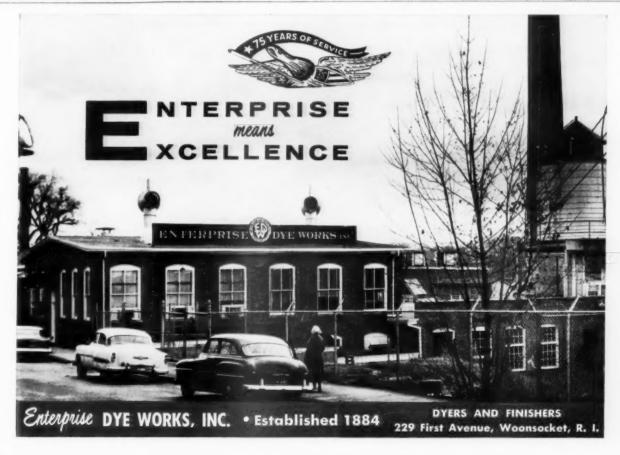
All the sweaters in this outsize group were cardigans in Orlon, including a popcorn-type stitch, in a collared style and collarless version; two other styles with collars-one in a conventional stitch, the other in a wavy, textured pattern; and

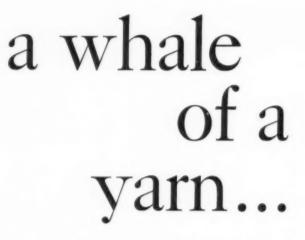
(Continued on Page 57)

Ladies' Ski Sweater



Ski slopes will be brighter for this bulky sweater's presence. The wide collar effect becomes a hood. Both hood and matching wide cable stitching which marches in twin lines down the sweater front are contrasted to the unusual knit which comprises the sweater body.





Stock Dyed Orlon!

For ship-shape, colorful garments, Glen Raven quality stock-dyed yarns now include heather and solid shades...made from new and longer-staple yarn.

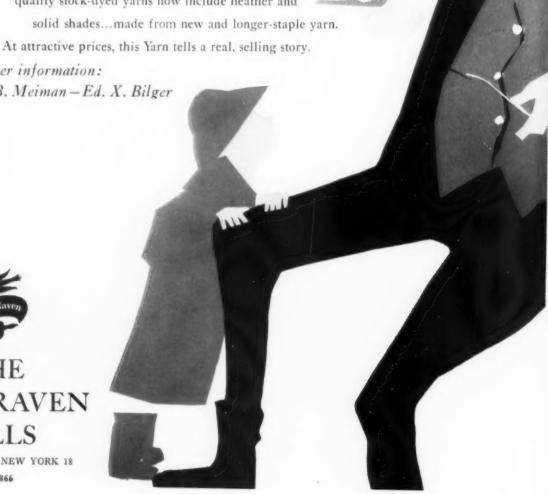
For further information:





THE GLEN RAVEN **MILLS**

1430 BROADWAY, NEW YORK 18 LO 4-8866



OCTO nel sty Sop styles. displa Wood made

Mills

from ! sell no but al smalle Rib numbe silk rib Orlon popula

lon car

had ar

gonal. particu fashior area, N respon of Cal \$14.95 lamina backin satin.

one, striped with white, in Chanel style with metal buttons.

Sophisticated and dressy styles, made to measure, were displayed by Mary and Earl Woodward for Caledonia Knits made by Morgan Clan Knitting Mills of Newark. Prices ranged from \$80 to \$395 retail. These sell not only in the larger cities, but also to better stores in the smaller cities.

Ribbon knits were used for a number of styles—for instance, silk ribbon on Irish linen and an Orlon cantrece with a scoop neck and bolero jacket. Another popular style had a bertha col-

A black cocktail dress in Orlon cantrece, subtle yet striking, had an unusual pattern of lines of ribbing meeting on the diagonal. This kind of gown was particularly well-liked in the fashionable San Francisco Bay area, Mr. Woodward said.

R. C. Ambes reported fine response for foam in interlined shaker knit jackets in his Fritzi of California line. Retailing at \$14.95 and \$16.95, these were laminated to a foam rubber backing and lined with rayon satin. Shades included loden, beige, bronze and off-white.



Ski slope styles salute simplicity without sacrificing warmth in these latest offerings by White Stag. At left this "Slope-Checker" model highlights a reversible wool knit parka with zipper front. In the center the "Weatherneck" sweater repeats a favored style in a ribbed fabric with zipper front and contrasting border trim. The "High Crew" pullover at right is constructed of Exlan acrylic in a boldly ribbed design.

WE'RE NOW MAKING

FASHION COLLARS

For Men's, Ladies' and Children's Garments

QUALITY COMBED & CARDED FABRICS

SINGLE & TWO PLY

* 64 & 96 feed stripes

"As modern as the fabrics we produce"



* 32 & 96 feed pattern wheel

* automatic stripes

* tuck bars

* rib & jersey

LAWRENCE KNITTING MILLS, INC.

300 W. 24th St., Charlotte 6, N. C.

"WE DELIVER 'YESTERDAY'"

Lawrence Levy, President

FRanklin 5-4406

Ban-Lon®

knitwear gives you profit pluses for better selling...

customer satisfaction





FOR YOUR PROTECTION Fabrics and garments which carry these trademarks must pass rigid quality and performance tests.

information, contact of supply or write Everglaze" Marketing Division, P. O. Box 189, Wilmington 99, Delaware.

Quality Control Program

For your protection, all fabrics and garments which carry the famous "Ban-Lon" trademark must undergo and pass rigid tests for quality and performance

Skilled Technical Staff

Technical help from the Bancroft Company and its licensees is readily available to give you assistance and advice in carrying out your "Ban-Lon" program

Nation-Wide Marketing Program

Trained marketing personnel visit stores throughout the country regularly to acquaint merchandise managers, buyers, and sales personnel with the unique advantages of "Ban-Lon" fabrics and fashions, as well as with the latest developments

Unique "Ban-Lon" **Properties**

The permanent crimp in the "Textralized" yarn assures:

- · soft, luxurious hand
- excellent stability
- resistance topilling, wrinkling
 - remarkable absorbency
 - sharp, bright colors
 - added bulk with less weight

Dermanent crimp in the yars the plus Ban-Lone fabrics and

OCT

garmenta variet are qu of occ and n for viv to be effects

The

Lac many a verv is the slightly add a small

althou

also 1

the po

"Everglaze" Marketing Division, Wilmington, Delaware, supervises the international merchandising of products approved to carry the Joseph Bancroft & Sons Co. trademarks "Ban-Lon" and/or "Everglaze".

rimp in he vars he plus in Ban-Long fabrics and armenta

The

rmanent

Ladies' And Misses'

Lacy Effects, Boucles And Pebbly Tweeds Prominent In Haymaker Knits

In addition to their standard collection of woven cotton clothing, Haymaker is featuring a variety of cotton and Arnel jersey knits in both their sportswear and dress collection for 1961.

The knitted dresses come in one- and two-piece versions, and are quite adaptable to a variety of occasions. Colors are bright and many are brought together for vivid new combinations, but conventional favorites are also to be seen. Interesting textured effects are evident in the dresses although Italian flat surfaces are also being shown. Lacy knit, boucle and tweed are some of the popular constructions.

Lace-Like Knits

Lacy effects are achieved in many cotton knits giving them a very elegant air. Bright green is the color of a sheath which is slightly bloused in the bodice to add a very feminine look. A small bow on the stand-away collar of another sheath provides

the only detail on this yellow lacy knit. A striped effect is also possible in the openwork of a linen and cotton construction. Alternate rows of contrasting stitches created after-five elegance in a new shade called oatmeal.

The Haymaker knits also have a tweedy look. A two-piece sheath of finely striped black and white ribbing covered entirely with white pebbles creates a nubby effect. A coordinating jacket incorporates the material of the dress into bold stripes that alternate with red and white stripes of a flat surface.

Fine rows of cable stitch cover the flat surface of a notso-drab olive green sheath creating a bas relief effect. The dress has a V-neck and scoop back.

Arnel Group

Flat surfaces are seen in a small check black and white sheath of cotton knit. This dress is highlighted by wide lapels and a doublebreasted front.

Arnel jersey is used quite extensively in dresses and sportswear. The fabric falls beautifully in full or pleated skirts, but it is also seen in sheath styling. A band of green and purple horizontal stripes on white background coordinated a pleated skirt and matching blouse.

The ensemble is featured in many styles, one of which is a navy blue sleeveless sheath in flat cotton knit, ensembled by cardigan jacket. Both pieces are trimmed in white. The cardigan and Chanel jacket are prominent atop many dresses and skirts. Another ensemble is formed with a tunic jacket over a beige cotton jersey sheath. The tunic silhouette is quite popular and is in evidence in many numbers.

Most of the knits are in solids and stripes, but several unusual prints are worthy of mention. One is a swirl paisley print in luggage color on off-white. It is perfectly plain except for soft gathering at the neckline.

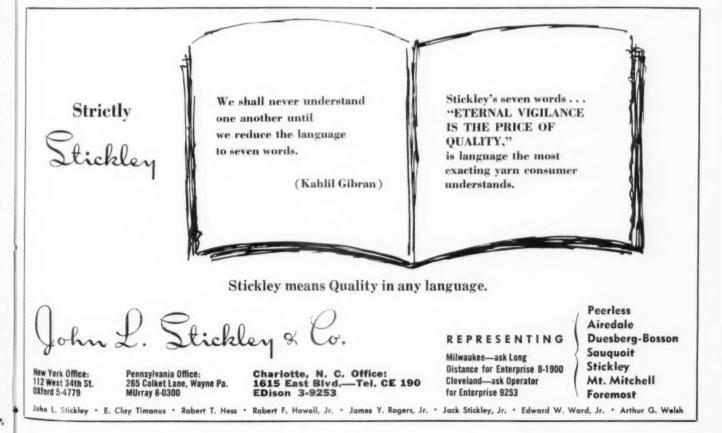
Another printed knit comes in an all-over pattern in shades of gold. This dress features notched collar and an elongated tie of the same material. Cotton is also being used in boucle knits imparting rich and interesting surface texture. One boucle is white with navy blue trim on the collar. A beige cotton boucle knit shirt dress is detailed by one large button at the neck and interesting horizontal yoke detail. An all-over black splash dot designs a white boucle cotton knit.

Sportswear shown includes bright pink cotton knit tapers that cling tightly to the leg and are fully lined. A pair of Helanca stretch slacks are so narrow at the ankles that a zipper closing at the foot must be used.

In cotton knit, many slacks are seen in stripe and solid effects with tops ranging from the bare midriff to the tunic. Blouses of horizontal stripes over vertically striped pants create contrasts with a definite continuity.

Over pants not matched by coordinating tops are many Arnel knit sweaters with full-fashioned sleeves and round and high, squared off necklines.

The great increase of knitted garments in the Haymaker collection is a strong indication of their increasing popularity and versatility.





safeguard your
fallspun
yarn investment

Quality is a necessary requirement of every product if it is to be the best. Give your product the protection of Fallspun seasoned skills and yarn manufacture. Since 1904 we have specialized in giving utmost value in woolen system yarns made from all fibers and blends of fibers. Call us directly at the mill or through any one of the following selling agents for prompt service.

FALLS YARN MILLS, INC.

Established 1904

WOONSOCKET, RHODE ISLAND . POplar 9-9880

SELLING AGENTS

Stanley Porter, New York City
Pfizenmaier & Kirkland Co., Boston, Mass.
W. J. Miller, Philadelphia, Penna.
C. L. Miller & Sons, Utica, N. Y.
Anthony, Cheatham & James Yarns, Inc., Burlington, N. C.
D. F. Swain Co., Chicago, Ill.

Uro To

OCT

PH wool is dustry its per vance tion means said he Ber ident of Institut Wool

that 'be giver or nat rimen than theore prima but de prover acader

He

referre

Gle

Н

d

Wool

Urges Big Effort To End Tangles In Wool Industry

PHILADELPHIA, Pa.—The wool industry and the textile industry in general should forget its pessimism and seek to advance by more effective promotion and research and other means, a leading textile educator sid here.

Bertrand W. Hayward, presdent of the Philadelphia Textile Institute, told the Philadelphia Wool and Textile Association that "the textile industry can't be given away either regionally or nationally without serious detriment to our whole economy. .. This is more clearly a fact than the pretty words of the theoreticians who do not check primary sources for their ideas but depend upon the current approved clichés in their tight academic circles." Mr. Hayward referred to "academicians' theories" against protection.

He urged the industry to put more effort into promotion, to give out better career information, and to work to develop "all of textiles" because of the interdependence of all parts of the industry.

The industry ought to seek "tariff protection as necessary because the industry is essential to our economy," he said. "Tax relief through more realistic depreciation should be secured immediately and every legitimate pressure should be employed."

If a preferred fiber wool is preferred in apparel and military clothing loses its markets, "it would have to be questioned as to how it was promoted and handled," he said. There is not enough research being conducted in the wool industry, he added.

The meeting was an observance of the bi-centennial of the American wool industry and National Wool Month. Earlier, Pennsylvania Governor David Lawrence and Philadelphia's Deputy Commerce Director Paul Hartenstein presented certificates marking the obesrvance to Miss Patti Jo Shaw, who is Miss Wool.

I. J. Horstmann, 2nd, of I. J. Horstmann Sons Co., president of the local association, said

various wool trade associations will ask the Democratic and Republican presidential candidates to state their position on imports and the textile industry in general.

Richard J. Goodrich, president of the Boston Wool Trade Association, noted the dependance of this country on wool and states that in the first six months of 1960, 43,700,000 square yards have been imported into this country, an increase of 31 percent over the same period in 1959.

Among the guests were Dr. Edward Shils, executive secretary of the Knitted Outerwear Manufacturers Association, Pennsylvania District and Ingram Bergman, Bergman Knitting Mills.

Trends In Consumption Of Apparel Grade Wools

(Continued from Page 7)
with a recession in textile demand because there are fewer
concerns, more efficient plants
and equipment and a more scientific approach to inventory
control. However, tighter inven-

tory control at the retail level.

also, is probably a contributing factor to the current decline in textile activity.

Available statistics of consumer clothing demand suggest that the sporadic retail ordering of recent weeks is influenced more by uncertainty about the busines outlook than actual retail sales. Consumer expenditures for non-durable goods and services are holding up fairly well against a decline in demand for durable goods of all kindsa phenomenon frequently observed in the early stages of United States recessions of the past. Consumer clothing expenditures for seven months of 1960 were actually four percent ahead of the corresponding yearago rate—seven percent ahead for men's and boys' clothing and two percent ahead for women's and children's clothing. Since the consumer apparel price index rose by less than two percent between July 1959 and July 1960, unit sale must have advanced over the period. Nevertheless, at the end of July, department store stock - sales ratios were on the high side of

(Continued on Page 63)



From Fiber to Finish Each step from spinning to dyeing is quality-controlled by Glen Raven; the only resource that follows through from raw to finished hi-bulk orlon colored yarns • Long staple yarns for classics • Package-dyed high bulk for bulkies...dyed at Glen Raven • Stock-dyed heather in all deniers • Yarns designed for napping and shearing • Bulky yarns from long staple orlon •

Wool spun yarns-75% lamb's wool-25% orlon-100% lamb's wool & wool blends.

For further information: Sheldon B. Meiman





Not enough working capital?



Worried about credit risks?



Too much bookkeeping and collection work?



The solution: factoring by Meinhard.

recensport men's much tion wome ary-J with a few comarks

OCI

marke fiber/—me and s ductio somev fabric ferenc crease duce v by ma

Price U.S. (Co endeav sumer

ability reduction raw fill that outhis tir

G

ΤΗ

recent years in all clothing and sportswear departments, except men's clothing. This explains the much better record of production of men's clothing than of women's clothing during January-July this year compared with a year ago.

Interim statistics do no permit a comprehensive appraisal of wool's share of the clothing market. In two items for which fiber/fabric details are reported—men's summer weight suits and separate trousers—the production of wool items increased somewhat less than that of other fabric items. However, the difference between the tow increases was not enough to reduce wool's share in either item by more than one percentage point for the 1959 period.

Price Changes Affect U.S. Use Of Cashmere

(Continued from Page 9) endeavoring to attract the consumer of moderate means. Our ability to do so hinges upon a reduction in the price of the raw fiber itself. We are hoping that our suppliers will cooperate this time. On the one hand, this

will permit us to sell more cashmere sweaters. On the other hand, the suppliers will be able to sell their raw material on a steady basis, without risking the possibility of losses because of decreased demand. The United States is by far the biggest importer of this raw material and therefore the suppliers should be interested in maintaining a high level of consumption here, as it means a great amount of dollar exchange for them. The European market is not such a good outlet for their product.

Since there is enough cashmere now in this country to cover all requirements for the 1961 season as it now shapes up, no fiber shortage is expected. There will be no danger, therefore, that the demand will outstrip supply and thus force prices up. If the yarn price for the best natural white cashmere can be maintained, the consumption of cashmere will undoubtedly remain at its present, somewhat circumscribed level. If, however, the yarn price can be reduced-which, of course, can only be accomplished if there is a reduction in the price

(Continued on Page 65)

SPECO

SERVICE, RELIABILITY
TECHNICAL ASSISTANCE

SOAPS

SOFTENERS

DETERGENTS

SPECONYL B—a new scouring and leveling agent which increases light fastness up to 50%.

Also increases wash fastness.

SPECAMINE W — a new, efficient economical softener especially designed for knitters who do their own wet processing.

INDEPENDENT CHEMICAL CORP.

INDUSTRIAL CHEMICALS

70-30 79th Pl., GLENDALE, BROOKLYN 27, N. Y. TWINING 4-0700

glen bulk

The yarn for bulky sweaters America loves.

glen bulk, the knitter's best friend, natural and dyed yarn. Also for brushing.



For further information: Sheldon B. Meiman



THE GLEN RAVEN MILLS, 1430 BROADWAY, NEW YORK 18, LO 4 · 8866



NICETOWN DYE WORKS

Orthodox and Belgrade Sts., Phila. 37, Pa.

Jefferson 5-4050-4051-4052

Pierre de St. Phalle, President Ellen G. Wall, Vice-President Paul F. Beener, Treasurer Harold L. Dungan, Secretary

of the be m increa We ca cashm scale The mere I Cashm

OCT

and k
progre
over ti
stores
mere
manuf
garme:
quality
produc
can pu
iority
ucts w
its cha
therefo

staining Stabilit on an mit la cashme try. We

ing of operate

(den)

TH

knit fea-

ths.

wn.

eing

and its

ters lors sed

get

of the raw fiber—then there will be much greater incentive for increased buying by the stores. We can then foresee the use of cashmere on a much larger scale in 1961.

The unique properties of cashmere have long been recognized. Cashmere processing, spinning and knitting have made such progress in the United States over the past few years that the stores know if they buy cashmere sweaters from reputable manufacturers, they are getting garments of excellent style and quality, better than anything produced elsewhere. The American public recognizes the superority of cashmere over products which attempt to simulate its characteristics. Let us hope, therefore, that the suppliers who hold the key to our problems will finally exhibit more understanding of their nature and will cooperate with us by reducing raw stock prices and then maintaining them at a steady level. Stability of the price structure on an attractive basis will permit large scale promotion of cashmere products in this country. We hope that 1961 will be

the year for this constructive action.

Analysis Of Trends In Furs And Fibers

(Continued from Page 9) \$1.10 to present greasy levels of 71½ cents.

While mohair is pretty much of a year 'round fiber and lamb's wool is considered a staple, the second and third quarters are busy periods for alpaca on Summer Street and prices change from week to week. Charcoals and fawns are most popular with the knitting industry and prevailing prices at the moment are \$1.75-\$1.80 for #1 white, \$1.20 for black and \$1.50 for light fawn. Alpaca and furs are more active than Shetland just now and this is one of the few fibers not in stock at the present time although the price range is estimated around \$1.75 and \$2.

Vicuna is not usually carried in inventory although this firm has sources when there is a call. Icelandic wool is now sold (Continued on Page 67)



DON'T FORGET...

Genuine S. & W.

FLAT PARTS

for

SCOTT & WILLIAMS

HOSIERY, UNDERWEAR, AND OUTERWEAR

MACHINES

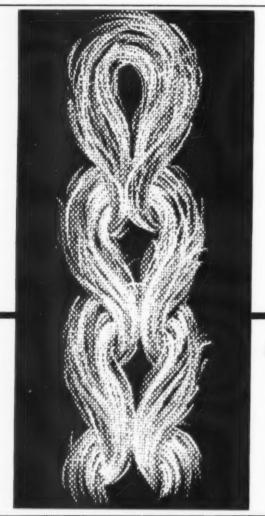
are now available from stocks carried in your nearest Torrington District Office. For prompt, dependable service, CALL

TORRINGTON

For napping and shearing. Hi-bulk and regular long staple for classics. Package-dyed in all colors.

**T.M. Fat. applied for Sheldon B. Meiman

THE GLEN RAVEN MILLS, 1430 BROADWAY, NEW YORK 18, LO 4 - 8866



ADD THE SPECIALIZATION OF THE "TIMES"

TO TELL AND SELL YOUR SYNTHETIC YARN STORY IN THE 13th ANNUAL

"SYNTHETIC NOVELTY AND BLEND YARNS REVIEW"... NOV. 7th

FEATURE ARTICLES:

- "Comprehensive Review of Synthetic Fibers and their Application to Knitted Outerwear and Swimwear"
- "Basic Ways in which Synthetic Fibers Are Spun"
- "Recent Advances in Rayon Fibers for Knitwear"
- "Blend Yarns and their Importance in Knitted Outerwear"
- "New Developments in Textured Filament Yarns for Knitwear and Swimwear"
- "Polypropylene Yarns and their Application to Knitwear"

plus many special features

The pace of synthetic yarn progress continues with unabated progress and achievement. Our Special Issue will give technical expression to the technological developments which have been streaming out of the laboratories of the fiber and yarn suppliers, and will relate these developments to knit goods manufacturing, processing and styling.

Because this annual issue will contain more information on new yarn spinning and throwing techniques, end-use applications and processing procedures than has ever before been published in a single volume, our edition actually will be an "Encyclopedia of Synthetic Information."

If you're a fiber supplier, yarn spinner, processor or in any other way related to the synthetic industry, your representation in our "Synthetic Yarn Review" is a "must."

Guarantee your identification with the knitted outerwear industry by scheduling a dominant promotional or institutional advertising message in it. Call, write or wire for full details.

Deadline for space reservations, October 24, 1960

Deadline for copy and/or plates, October 28, 1960 Knitted Outerwear Times

386 PARK AVENUE SOUTH . NEW YORK 16, N. Y.

MURRAY HILL 3-7520

an age valued Kemp Mount for w now p for to in the

The

duty of stacles of rare in price mere Camel ing, is able quabouts from \$ to \$3 f

Duriyears, creasin and Australagainst ferings, trend a

5

M

THI

through a Federation acting as an agent for that country and is valued from \$1.15 to \$1.40. Kempy, high finishing Welsh Mountain wool is kept in stock for weavers, however, and is now priced from \$1.50 to \$1.75 for top grades to \$1.15-\$1.20 in the inferior lots.

Politics And Duties

The political situation and duty difficulties have been obstacles in picking up some lots of rare fibers and this is reflected in prices. Camel hair and cashmere are particuarly affected. Camel hair, relatively slow moving, is, however, used in sizeable quantities by one mill hereabouts and prices now range from \$1.35 for Mongolian types to \$3 for number 1 grades.

Interest In Lamb's Wool

During the past three or four years, knitters have shown increasing interest in lamb's wool and Australian types with more softness and no black is preferred. Real good scoured fine Australian is valued at \$1.30 as against \$1.10 for domestic offerings. Mr. Forte said that the trend among knitting interests is

away from the fancier types in favor of garnetted assortments. Random garnetted stocks totalling up to pastel shades are quoted around eighty cents with medium oxford offered around ninety cents. The current asking price for Australian broken top is \$1.55 with bleached white selling at \$1.10.

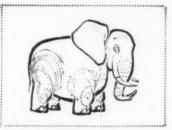
Representative Prices

Representative prices of types of mohair most likely to be of interest to knitters are as follows: Kid 40s, \$3.40; kid 32s, \$2.85; adult 28s, \$1.95 and adult 24s, \$1.45.

Sewing Machine Official Dead In Plane Crash

Henry P. King, secretary of the American Safety Table Co., Reading, Pa., was killed in the crash of the Eastern Air Lines Electra plane in Boston Harbor October 4. Justin J. Baumann, treasurer of the company, suffered multiple fractures of both legs and a fractured jaw.

Both were returning via Philadelphia to their homes in Reading, Pa., from a sales conference of sewing-machine executives.



REMEMBER ...

Genuine S. & W.

FLAT PARTS

for

SCOTT & WILLIAMS

HOSIERY, UNDERWEAR, AND OUTERWEAR

MACHINES

are now available from stocks carried in your nearest Torrington District Office. For prompt, dependable service, CALL

TORRINGTON

long stock-dyed heathers

Whatever the weather use our stock-dyed heathers... 3 denier regular and high bulk, heathers for **bulkies**, and the new and unusual Lovat combinations.



For further information: Sheldon B. Meiman



THE GLEN RAVEN MILLS, 1430 BROADWAY, NEW YORK 18, LO 4-8866



THE BIG SWIMWEAR NEWS FOR '61 IS LASTEX" WITH VYRENE® CORE

Vyrene spandex fiber – the wonder-working heart of new Lastex leads the '61 parade on runways...in fashion shows...in swimwear showrooms everywhere. And no wonder-this new ultrafine Lastex yarn with Vyrene core...as well as regular Lastex, so familiar to trade and consumer alike...creates the important high-fashion fabrics, both knit and woven, that are so persuasive in figure-flattering control.

This new super-fine Lastex with Vyrene spandex core supplements and extends the range of all other famous Lastex yarns... all of which are made only by the Textile Division, United States Rubber.



LASTEX YARN

TEXTILE DIVISION

United States Rubber

Rockefeller Center, New York 20, N.Y.

Plu At

OCT

Kn than i Knick sweath at the The p singer sweath the It that the High were pold is the swere gold in the swere sold in

The were the exat Hun The for the lin Ran deman and co

pants keyed

girls, o

TH

ar

Infants' And Children's Wear

Plums Rich And Ripe This Season At Knickerbocker Holiday Showcase

By ALAN SIEGLER

Knitwear coordinates in solid colors and stripes, more subtle than in previous years, were the fastest selling numbers at the annual Knickerbocker Showcase of infants' and children's wear. Ski sweaters and knitted swimwear in all sizes were in demand at the Huntingdon Mills, Inc. exhibit, represented by Jack Stein.

The promotion built around the singer Fabian was selling many sweaters in the line, particularly the brushed tow-dyed Orlon that the company specializes in. High V-necks and shawl collars were popular.

The leading colors for boys were commander blue, straw, gold and moss green and for girls, colbalt blue, lilac and butterball.

The plums and lilacs, which were doing well in almost all the exhibits, also were strong at Huntingdon.

There were early season calls for the knitted swim suits in the line.

Randy Knitwear found big demand for its knit T-shirts and coordinates for girls. The pants were corduroy or velvet, keyed around four colors—purple, taffy, white and green.

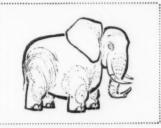
Stripes and solid colors were moving. The poncho top was noticeably in demand.

Among the leading coordinates were a tasselled top with corduroy pants in matching colors, lilac or green stripes with pants to match, a striped top with pom-pom, and a Christmas Box shirt with ribbon and bows in lilac or green running horizontally over a white background with lilac velvet pants to match.

Randy coordinates were priced at \$4.98 and \$5.98 retail, and, with velvet instead of corduroy pants, at \$7.98 and \$8.98.

H. Rosenstock & Sons was pushing its matching Bedford cord cotton knits for spring and finding enthusiastic response for

(Continued on Page 71)



REMEMBER ...

Genuine S. & W.

FLAT PARTS

for

SCOTT & WILLIAMS

HOSIERY, UNDERWEAR, AND OUTERWEAR

MACHINES

are now available from stocks carried in your nearest Torrington District Office. For prompt, dependable service, CALL

TORRINGTON



dyed Glen Raven

Glen Raven—the only spinner to

package dye high bulk orlon yarns at their

own mills—insure a job that is

smooth, fast, perfect...in one operation.

All-under-one-roof, we control and

maintain quality throughout!

Also dyeing for match mates

For further information: Sheldon B. Meiman

Olen Rates

THE GLEN RAVEN MILLS, 1430 BROADWAY, NEW YORK 18, LO 4 - 8866

TURBO-ORLON

... No. 1 Acrylic Fibre

FIBERS OF FAMOUS DU PONT

ORLON* ARE S-T-R-E-T-C-H-E-D

THEN B/R/O/K/E/N INTO

VARIABLE LENGTHS

SOME ARE



RELAXED IN

A SPECIAL STEAM PROCESS BEFORE

BLENDING WITH THEIR STRETCHED

BUT UNRELAXED



BROTHERS.

THE YARN SPUN FROM THIS

COMBINATION PRODUCES A

KNITTED GARMENT WITH



SCIENTIFICALLY CONTROLLED SHRINKAGE

DURING FINAL FINISHING-RESULT

SUPERIOR HAND, HIGH BULK-A TURBO-ORLON GARMENT



LOHRKE / TURBO

J. L. LOHRKE COMPANY

3 PENN CENTER PLAZA · PHILADELPHIA 2, PA.

CABLE ADDRESS: LOHRKO-PHILA.

*Du Pont Reg. Trademark



a boy
ioned
bronz
corne
throug
ous e
Oth
olive
brown
white

OCT

gold.
M. lilac, previous big co-blouse pany knits.
One co-pleate a who match.
Boy and s

Katz,

necks gold,

popula The pricetractic best s gold knit c underst ton pl charce shawl Sac mostly cluded

ket of row of match An Or print obackgr Red w

Ber its bei report girls' two-pi patch slacks very

lnc., loden cardig black tern. on ma high-V shawl

shawl Many sized a boy's gold shirt with fashioned-collar and placket and bronze buttons emblazoned with cornets. The buttons appeared throughout the line with various emblems.

Other popular shirts were an olive check with placket in brown and green and a gold and white with a collar trimmed in

Berman & Sons found M. lilac, blue, plum and — as in previous years—red to be the big colors in its girl's skirt and blouse coordinates. The company sells its machine washable knits at \$5.98 to \$9.98 retail. One outstanding number was the pleated blue skirt teamed with a white top with triangles of matching blue.

Boy's long sleeve knit polo and slack sets in sizes 2 to 8 were selling at Landsman & Katz, Inc. Fashion knits, club necks and shawl collars in olive. gold, charcoal and red were popular.

The quality look for the low price-\$2.98 a set-was the attraction for buyers. Among the best sellers were an olive and gold striped shirt with Italian knit collar in gold with olive underside and V-stripe two-button placket, and a gray, red and charcoal striper with reversible shawl collar.

Sacony, Inc. coordinates were mostly of Merino wool and included a striped short-waist jacket of blast pink with a double row of buttons and long sleeves, matched with a pleated skirt. An Orlon top with a strawberry print on a dotted red and white background was doing very well. Red was again a favorite. Plum was coming up fast.

Berkshire Sportswear, selling its better grade children's wear, reported good business for its girls' cotton knits. A leopard two-piece with turtle neck and patch pockets over matching slacks tapered to the ankle was very popular.

Havenshire Knitwear Co., Inc., featured olive, gold and loden for boys. A five-button cardigan had green, white and black stripes in an irregular pattern. Surface texture was bold on many of the sweaters. The high-V. boat neck and some shawl collars were prominent. Many of the designs emphasized the V-neck by stripes or stitching

Finishes

Courtaulds Issues Wash-Wear Finish For Rayon, Cotton

A permanent, non-resin, wash - wear finish designed to make rayon and rayon - cotton blend fabrics competitive with other wash - and - wear fabrics was announced today by Courtaulds, Inc.

The finish, Prestwick, has been applied commercially only to spun rayons, but extensive trials suggest it will be effective on cotton, continuous filament rayon, cellulosics and blends of cellulosics and thermoplastic

The company says Prestwick has outstanding dimensional stability on both rayon and cotton fabrics. For the first time, fabrics treated with Prestwick may be shrunk compressively to a residual shrinkage of less than one percent in both length and width as tested by the U.S. standard cotton wash-and-wear test procedure.

The finish has withstood fifty complete cycles of automatic laundering by the company.

The Prestwick process permanently modifies the cellulose fibers to which it is applied so that, crease recovery, wash-andwear properties and dimensional stability are maintained for the life of the garment regardless of the kind or amount of washing. the company says. The finish is said to have chlorine retention.

Courtaulds will license the process for both rayon and cotton, and permit the use of the trademark "Prestwick" on fabrics conforming to the company's quality standards. The fabrics will be extensively advertised in the trade and supported by hangtags.

United Merchants & Manufacturers, the first licensee of Prestwick, since May has successfully processed over one million yards of spun rayon fabrics. Trials are in progress with United Merchants and a number of other finishers on rayon and cotton fabrics.

Edwin Berliner, formerly with United Merchants, will join Courtaulds within the next month to coordinate the Prestwick licensing program.



Orlon Sayelle

Get the facts before you act

Your entire success of Orlon Sayelle sweater production depends greatly on the skills of your dyer. We, at Dyecraftsmen, have mastered all the problems of dyeing these elegant new yarns . . . so that the colors are exactly in the wanted shades . . . so that they retain their resiliency . . . their high loft.

Whether it is ORLON SAYELLE, CRESLAN, TEXTURED NYLON or any SYNTHETIC in blends or novelties you can rely on Dyecraftsmen to deliver on

schedule the high fashion colors in clear, vibrant tones that bequile the eye and motivate buying.

Dyecraftsmen's highly-skilled know-how, modern equipment, and reliability assure you quality results.

SPECIAL OFFER

To prove that there is a tremendous difference in the dyeing of Orlon Sayelle, we will gladly dye a sample lot so that you may compare results. Is COLOR your problem? Come to the masters.



DYECRAFTSMEN, INC.

Master skein dyers and bleachers 349 Lincoln Street, Hingham, Massachusetts Riverview 9-1141, 1142



Philadelphia 24, Pa.

True Electronic Unit Perfected

(Continued from Page 29)

ing attached to an extension of the rear end of the cambox. The two radiussed ends of the loops pass over pulleys at each end of the machine, these pulleys being an integral part of a servomotor gear box unit bolted to the back of the frame. The bett pulley is mounted on two substantial ball races capable of eccentric adjustment for setting the gear mesh. These bearings have to withstand the radial load imposed upon them by the static tension in the steel belts in addition to that resulting from the acceleration and deceleration forces. A slipping clutch is provided for emergency purposes and comes into action only if the cambox is positively stopped by some accident. All gears are enclosed either by covers or seals and lubrication can be done by grease gun.

Each gear box has two motors and one of these carries a tachogenerator mounted avially and driven directly from the motor shaft. The purpose of the tachogenerator is to feed back to the cambox speed controller information about the actual speed of the cambox. This is continuously compared with the programmed speed and the cambox is automatically accelerated or retarded accordingly. A forced air cooling system is provided, consisting of an internally-mounted commercial type of blower feeding air to the motors on both gear boxes. The air is sucked axially through the motors from the commutator end. Mechanical and electrical stops are fitted at each end of the machine for emergency purposes

Any of the eight yarn carriers can be selected in any order and those not selected, or not in action during loop transfer, are retained at the ends of the needlebeds. Since the yarn carriers necessarily work in sympathy with the cambox, they are controlled by the cambox controller mechanism. A safety circuit is incorporated to ensure that the carriers have been correctly selected before the cambox starts its traverse.

Two traverses of the cambox are required to transfer loops

from one bed to the other. The first traverse selects and sets un the needles; the second traverse carries out the actual transfer Between the two traverses, the back bed is racked over a half a needle space. The left-hand cam system transfers from front to back in moving from left to right and back; the right-hand cam system transfers from back to front in moving from right to left and back. Transferring can be effected on any combination of needles or on a whole bed at a time.

The needles are selected and set up by the electro-magnetic selectors described above. When the complete transfer action has taken place, the transfer cams are returned to their normal positions and the beds racked back to their original places.

Racking takes place on all eight Tailor-Knitting Machines simultaneously, over ±12 needle spaces on either side of a central position in steps of 1, 2 or 3 needle spaces. A safety device prevents over-racking. The racked position is maintained until fresh instructions are given, which may be many courses later, and the mechanism automatically checks that the racking instructions are correctly carried out. An electromagnetic clamp locks the beds in their relative positions at all times except when racking is taking place.

The take-up requirements of the machine differ from those of orthodox flat bed machines in that varying take-down speeds may be needed across the knitting width. For instance, it may be required to hold a large batch of needles while adjacent ones are knitting, which makes it impracticable to provide constant take-down pull across the full knitting width. This problem has been solved by providing two long shafts extending across the full bed width, each shaft carrying a number of star wheels made of solid nylon and frictionally mounted so that they grip until a known torque figure is reached, alternating with similiar wheels freely mounted. As the radius of the wheels is a constant, this slipping torque determines the take-down tension. The wheels face each other in staggered relationship so that

(Continued on Next Page)

On T.
ON a an aver number the cam of the average the total

остов

Time

Thus, a would k minutes
The verse of dress a 2-incl sumer s full trav the acturaverse

The over the meand the

would

To this stant of at the of static of per average seconds

at any wheels pair of shafts at a su ing the for loop down

The two opplied and is further after with the shift held, it ously a ting be

The permit to be a justme mecha

TIMES

her. The

sets up traverse

transfer.

ses, the

r a half

m front left to

ht-hand

m back

n right

sferring ombina-

whole

ed and

agnetic

. When

on has

cams

nal po-

d back

on all

ichines

2 nee-

of a

f 1, 2

safety

cking.

main-

ections

many

echanthat

e cor-

ectro-

beds

at all

ng is

nts of

those

hines

peeds

knit-

may

batch

ones

stant

full

n has

two

s the

car-

heels

fric-

they

fig-

with

nted.

ls is

rque

ten-

ther

that

1

Time Taken To Knit An Average Size Dress On The MacQueen Tailor-Knitting Machine

ON a machine with 10 needles per inch in each bed, and with an average knitting 'quality' of 30 courses per inch, the total number of courses in a woman's dress would be 3,000. Since the the cambox knits two courses at a time, the number of traverses of the cambox would be 1,500. The total time taken for an average traverse and dwell of the cambox is 2.050 seconds, and the total time taken to knit such a dress would therefore be:

$$\frac{2.050 \times 1500}{60} = 51.25$$
 minutes.

Thus, a set of eight 'slave' machines producing identical garments would knit eight dresses in 51.25 minutes, or ene dress every 6.48 minutes.

The calculation of the time taken per average dwell and traverse of the cambox is based on the following data. The length of dress for the average woman 5'3" high is 42 inches, including a 2-inch hem. This figure is based on British and American consumer surveys. The MacQueen technique saves 35 per cent of the full traverse width of the garment since the cambox traverses only the actual knitting width in each course. The average cambox traverse for the dress in question would therefore be:

$$\frac{42 \times (100 - 35)}{100} = 27.30 \text{ inches.}$$

The overshoot of the cambox adds the width of the cambox (10 inches) to every two courses knitted. Therefore the total width of traverse per course is $27.30 + \frac{10}{2} = 32.30$ inches.

The mean linear speed of the cambox is 135 feet per minute, and the cambox traverse of the average course is 32.30 inches would take:

$$\frac{32.50 \times 60}{12 \times 35} = 1.200 \text{ seconds.}$$

To this must be added an acceleration and deceleration time constant of 0.350 seconds per traverse, together with a dwell time at the end of each traverse of 0.500 seconds, which includes the static operation cycle of 0.450 seconds. The total time taken per average dwell and traverse of the cambox is therefore 2.050 seconds.

at any position one of the idler wheels is mounted opposite a pair of the friction wheels. The shafts are continually rotated at a suitable speed, except during the two traverses required for loop transfer, when the takedown pull is suspended.

Take-Up Action

The fabric passes between the two opposing rows of star wheels and is pulled down until no further take-up is possible, after which the wheels slip on the shafts. When stitches are held, the wheels slip continuously at that part until the knitting begins again.

Staggered Arrangement

The staggered arrangement permits any thickness of fabric to be accommodated without adjustment of the take-down mechanism.

Labor Relations

Wage Increases Granted To Dyeing Plant Workers

PHILADELPHIA, Pa.—Some 1,850 employees, workers at 17 local textile and dyeing and finishing plants, get wage boosts ranging up to 12½ cents per hour in new one-year contracts negotiated with the Textile Workers Union of America, effective immediately.

The firms are: Anchor Dye Co.; Franklin Process Co.; Orinoka Dye Co.; Hellwig Dyeing Co.; Frankford Woolen Co.; Textile Service Co.; Caledonia Dye Co.; Electric Dye Co.; Philadelphia Dye Works; Dan Waters; Brehm & Stehle; Hulton Dye Co.; Nicetown Dye Co.; Pine Arts Lace Co.; Atlas Fabric Co.; Chesterman-Leeland Corp.

WHY FINE FIRMS FACTOR WITH



Manufacturers factor with William Iselin & Co., Inc., to gain various combinations of the practical advantages our service offers them. such as:

- Faster turnover of working capital.
- Fullest utilization of invested capital.
- Use of funds over and above those provided by cashing accounts receivable.
- Ability to finance seasonal peaks comfortably.
- ► Expansion of sales and distribution, through more effective credit service.
- Competitive ability to offer longer terms and extra dating without burdening their own working capital.
- ► Complete relief from bad debts and credit department expense.
- ► Consultative services of business experts in their own fields.
- Freedom of management's time for concentration on styling, production, merchandising, selling.
- ▶ Reduction of debt.
- Availability of funds for advantageous purchasing.
- Support for financing new plant and equipment.
- ► Funds for buy-outs of other interests, acquisition of new businesses.

Many of our clients have factored with us for years. They can obtain any reasonable accommodation from any institution. They were successful companies when they came to us. As clients of William Iselin & Co., Inc., they have grown even stronger and more prosperous because, through our services and our financial support, they have maximum productive use of their money at all times.

WILLIAM ISELIN & CO., INC. Factors · Founded 1808

967 PARK AVENUE SOUTH NEW YORK 10, N.Y.

all these firsts...

HAVE MADE ALLEN KNITTING MILLS THE FIRST IN 100% ACRILAN ACRYLIC JERSEYS

FIRST 100% ACRILAN Jersey

FIRST "REDMANIZED" Jersey of ACRILAN

FIRST Jersey in hi-bulk ACRILAN

FIRST in hi-bulk ACRILAN fancies and stripes

FIRST in yarn-dyed ACRILAN

FIRST in worsted-spun ACRILAN

FIRST in Type 16 ACRILAN

FIRST with Allenella Jersey Prints

FIRST with Eleganté—highest-quality Jersey knitted of worsted-spun Acrilan available in 2-denier

FIRST with Scottfoam Eleganté – Eleganté with Scottfoam bonded to it, creating new horizons for outerwear manufacturers

Allen Knitting Mills produced the first 100% Acrilan Jersey. Manufacturers asked for more . . . and more. Allen turned out, not only more – but entire new concepts in ACRILAN Jersey listed above.

Whatever you manufacture in Jersey, one or many of the ACRILAN Jerseys listed here can bring you "firsts" in peak sales. Come in and consult with us . . . we'll show you how the inventiveness that produced all these famous Allen "firsts" can work for you!

ALLEN KNITTING MILLS, Inc.

1412 Broadway, New York 18, N. Y.

Knitwear Abroad

British Knitwear Makers Broaden Use Of Synthetic Fibers, Blends

GLASGOW, Scotland (Via Scottish Amalgamated Trade News)—The expansion in use of synthetics in the knitwear field in Britain is indicated in this year's showings. On the present basis it is clear that the man-made fibers have received acceptance and that a greater share of the market is likely with each succeed.

ing year. The main direction of development would seem to be the most effective blending of fibers, the evolution of techniques to make the fullest use of what is available and the exploitation of the particular features of the synthetics.

It is a safe argument that there is already a sufficiency of man-made fibers available from which to select; manufacturers argue that there are too many; to test all and every one, and to test all the blends, is a long and difficult job. Manufacturers themselves have done a great deal of this pioneer work and have been seeking support in terms of use and, in other cases, merely experimental use.

In many cases, the Scottish houses have been slow to move; have regarded man-made fibers as a breach of their tradition. English firms have been more ready to use synthetic fibers, and now Scottish knitwear firms too are coming round to their use.

The manufacturing capacity of the main man-made fibers industry continues to expand. That means that use must be made of the output in knitwear or in alternative fields, and this has resulted in pressure by the man-made fiber makers to have their materials fully tested and, if possible, adopted.

Orlon chunky knits have boomed into popularity; last year only a few firms used this yarn. This year some 40 firms are running Orlon bulky knit garments in their offerings. In some cases the makers are so satisfied with Orlon that they have incorporated full ranges of Orlon for the autumn.

The big chains have given Orlon its chance and, according to current reports, more Orlon knitwear is being handled in some of these mammoth concerns than wool.

Courtelle yarn is another which has been scheduled for the autumn trade on an expanding scale. Here again the use was

slow to start but is now snow.

balling. Coincidental with this expanding use, there has been the expanding production already mentioned and, because of competition, lower price levels. This has helped to make man-made fibers an attractive proposition for knitters who might otherwise have delayed the step. Majority of the synthetic fibers are now approaching parity with wool. whereas previously they tended to be more costly. They have not had the advantage of price fluctuations which have assisted wool, however, and to that extent are still more costly than wool, taking into account the price variations. But against this the synthetics have been heavily publicized, so much so that the consumer is now seeking manmade fiber knits-often, it may well be, without any clear knowledge of the fibers, but con-

ern" thing to do.

In effect the man-made fiber manufacturers have sold their ideas to the consumer with such success that the less enthusiastic manufacturer has really no option but to experiment with the materials, make up and offer to buyers, and then accept the fiber as a regular feature, always assuming that it meets the acid test of continued value for

scious only that it is the "mod-

Synthetics have the particular virtue that they wash and rewash well and quickly. Much has been made of this aspect in the selling story, and it is largely the reason for the big use being made now of man-made fibers in the sporting and casual wear trades. The ease of washing has also allowed much paler shades than otherwise to be adopted; when soiling and washing was a problem, the paler shades were out; now, with washing simplified by man-made fabrics, pale shades can be used as widely as desired and are very much "in."

Another big advantage of the (Continued on Next Page)

Fitte styled

syntheti has bee

bulk v

the fibe

ter. In

moved

Init stv

trade) t

ings and

lave bo

wo this

used to

also bei

of the

age tra

been us

costly g

feeling

quite in

ars, yo

the sma

to the

being i

the ne

These 1

behind

draped

accordi

thi

synthetics in the winter ranges has been their capacity to offer aden bulk without weight. Orlon, Courtelle and Acrilan are again ends the fibers which are taking a lot of bulky-look trade for the winade News ter. In this field design has wear field noved from the basic fisherman e present knit stylings (except in the men's cceptance trade) to much more varied stylsucceedings and patterned effects.

w snow-

this ex-

been the

of com-

els. This

an-made

oposition

otherwise

Majority

are now

th wool.

y tended

ey have

of price

assisted

that ex-

tly than

ount the

ainst this

heavily

that the

ng man-, it may y clear but con-

e "mod-

de fiber ld their ith such

nusiastic no opwith the offer to

the fiber

ays ashe acid

ue for

rticular

rewash

as been e selling

reason

de now e sport-

es. The

allowed

other-

soiling

em, the

w. with n-made

e used

re very

of the

age)

Collar Effects

Hip-length bulky cardigans have bold collars; in some cases wo thicknesses of collar rib are already used to give contrast. These are also being introduced with some of the collar effects in the teenage trade. Fringe borders have been used on some of the more costly garments, and there is a feeling that fringes could become quite important, bordering colars, yokes, button fronts or, in the smartest sense, as decoration to the long scarves which are being incorporated in some of the newest teen-age stylings. These long scarves are fastened behind the neck and can thus be draped in all sorts of forms according to the customer's particular fancy.

> Fitted sweaters shaped and syled like shirts are making a

considerable impact on the younger girls. This is a repetition of the masculine knitted shirt boom, and in fact, many of the feminine shirts are really smaller size men's shirts appropriated for the female of the species. Now, to meet this interest in trim, snug-fitting shirt blouses, suitable styles are being produced with trim-collars, two or three neck buttoning, and a shirt cuff at the full-length sleeve.

Financial

White Stag Declares Dividends: Sales Up

PORTLAND, Ore. - White Stag Manufacturing Company has declared a regular quarterly dividend of 25 cents per share on Class A and Class B-1 common stock and a dividend of 71/2 cents per share on four classes, B-2 through B-5, of common stock. The dividends will be payable November 15 to holders of record November 1.

The Company also declared a dividend of \$1.121/2 per share of preferred stock payable December 1, 1960 to holders of record November 21.



KEEP IN MIND ...

Genuine S. & W.

FLAT PARTS

SCOTT &

HOSIERY, UNDERWEAR, AND OUTERWEAR

MACHINES

are now available from stocks carried in your nearest Torrington District Office. For prompt, dependable service,

TORRINGTON

New Product Ideas For Knitters:

How Knitters Can Make More Money in 'Sixty-One With New Perma-Bond Foam Lamination Ideas!

this garment is lined with ... warmth without **URETHANE FOAM** weight FOR TEXTILES

A. D. GOSMAN, INC. . CARTERET, N. J. A DIVISION OF PRECISION PROCESSING CORP.

MADE WITH

HYLENE

DU PONT

Now there's a new season for you, in addition to the established Fall season for foam laminates! Markets you have never sold before can be reached with these new concepts-besides expanding your present markets.

Tricots, light gauge jerseys and flat knits in all natural and man-made fibers for rainwear, spring-weight jackets, car coats, swim and beachwear! Contrast-color unlined reversibles in double laminates-yet zephyr-light for Spring! All possible with Perma-Bond's new, perfected double and single lamination using wafer-thin 1/32" foam that stabilizes the knit-stops sag and stretch!

For women's slacks and toreador pants this is a completely new idea that opens still further horizons. And it's utterly fantastic with Helanca for swimwear!

Important:

Due to Gosman's leadership in the field of foam lamination, contact us at:

NOSA Room 411 4th Floor and Booth 6 2nd Floor Booth 6 2nd Floor

A. D. GOSMAN, INC.

1001 ROOSEVELT AVE. CARTERET, N. J. FROM NEW YORK, DIAL 11-THEN KI 1-4226

A DIVISION OF PRECISION PROCESSING CORPORATION

"Every Season We Ran Short of Money"

"We ran short of cash twice a year, at peak season time, just when we needed working capital the most. The pressure was terrible. We were constantly negotiating and renegotiating.

"Then we learned about Commercial Factors and its Business Growth Plan. We investigated and found it satisfied our needs perfectly. We haven't had money problems since."

Cash As You Need It

Pre-season, in season, post-season, you need never again worry about working funds. We provide those funds when and as you need them. That's only one of the benefits of the Business Growth Plan. Why not investigate for yourself?

Send For Free Plan Book

This 16-page brochure describes in detail all the key features of the Business Growth Plan and offers valuable suggestions on how to expand your business and safeguard your profits. No cost or obligation. Write Dept. K-1017.



"Serving the financial needs of industry since 1828"

Commercial Factors Corporation

One Park Ave., N. Y. 16, N. Y. • MU 3-1200

INDUSTRY'S BOOK SHELF

THE FIELD SALES MAN-AGER, A manual of Practice, Edited by Albert Newgarden, Published by the American Management Association, New York, N. Y. Management Report 48, 380 pages cloth binding, \$7.50/ AMA members: \$5.00

This is a complete, one-volume for anyone who manages salesmen in the field. He may be called sales manager, division sales manager, regional sales manager, district sales manager, branch sales manager, or sales supervisor. Whatever his title, he is responsible for getting results from his salesmen through planned recruitment, selection, and training; leadership and effective motivation; successful sales meetings; and improved communications.

This book takes the point of view that the field sales manager has real managerial resposibilities. It describes his duties and the opportunities they offer.

To insure a practical approach, the authors have had extensive experience as field sales managers or as staff specialists in related fields. This book will help the field sales manager organize his job and improve his management skills to get better sales results.

MODERN APPROACHES TO PRODUCTION PLAN-NING AND CONTROL. Edited by Robert A. Pritzker and Robert A. Gring, Published by the American Management Association, New York, N.Y. 445 pages, Cloth binding, \$9.00/ AMA members: \$6.00.

In this new book, trained executives show how to organize and manage the production planning and control function. They examine in detail modern planning tools, control techniques, and mechanical and mathematical aids. A special group of three company case studies is included: Westinghouse Air Brake describes its use of punchedcare equipment for progressive integration of order entry, inventory control, and production scheduling. The Dyestuff and Chemical Division of General Aniline & Film explains how it achieves an unusual degree of teamwork between production planning and control and they have other organizational functions mands of Lukens Steel discusses application of OR in inventory control

DATA PROCESSING TO. DAY. Published by the American place ican Management Association systems p New York, N.Y. Management and office Report 46, 143 pages, \$3.75 ance. The AMA members: \$2.50.

After a decade of explosive growth in data-processing technology, a wide variety of equipment - manual, semi-automatic -is now available to meet the needs of business management This technological abundance raises certain basic questions: PLOYE What does management really want from modern methods and techniques of data procesing? Study 4 How can today's data-process AMA m ing techniques and concepts be used to meet management's needs, now and in the future? How much will it cost?

This report answers these and and other questions. It makes dividual a realistic evaluation of data processing's role in the modern business enterprise and outlines the relation of data processing to the management information system.

Executives of leading companies describe successful dataprocessing applications for control of chemical processes; investigation of system deficiencies through multiple-regression analysis; use of computer simulation techniques in production and airline operations; and use of electronic computers for order handling and billing, sales planning, and production planning. scheduling, and control. As a special feature, the report includes a detailed account of a major company approach to a corporation-wide informationprocessing system.

THE CHANGING DIMEN-SIONS OF OFFICE MAN-AGEMENT. Published by the American Management Association, New York, N.Y. Management Report 41, 159 pages, \$3.75/AMA members: \$2.50.

The "administrative revolution" of the past ten years has increased the dimensions of the offices manager's job. While new

(Continued on Next Page)

er any ederal r not to This

Becau

e not

mnens

Rev

In this

is "adi

these

oncepts

and show

ger car

developn

OVER

OL

ools and techniques—data-proessing equipment and systems noroaches—have enchanced the efectiveness of office operations, introl and they have also increased the demands on the office manager. functions

Revolutionary Changes

s applica-

meet the

agement.

nt really

gement's

of data

modern outlines rocessing

Page)

y control In this report, participants in is "administrative revolution" NG To survey the changes that have he Amer taken place in data processing, ssociation, systems planning, office services, nagement and office design and maintens, \$3.75 ance. They discuss the impact these changes on traditional explosive concepts of office management and show how the office maning techof equip ager can plan now for future development. automatic

OVERTIME COMPENSAbundance TION FOR EXEMPT EMquestions: PLOYEES. Published by the American Management Associahods and ion, New York, N.Y. Research rocesing! Study 40, 39 pages, \$2.25/ -process- AMA members: \$1.50.

ncepts be Because exempt employees ne not generally entitled to e future! compensation for overtime unlar any provision of state or these and Federal law, it is up to the int makes dividual firm to decide whether or not to compensate them. This research study is the

result of an AMA survey of 434 companies, conducted to determine in what circumstances, and to what extent, industry does voluntarily grant such compensation. It reports on current laws, plans, practices, and company viewpoints regarding overtime compensation for exempt personnel.

Companies surveyed describe their various plans for overtime payment: equal time off, the twostep plan, scales of payment, etc., Also discussed are the types of exempt personnel paid for overtime: factory first-line super-visors, clerical first-line supervisors, salaried professionals. and middle management. Detailed exhibits and tables accompanying each section add to the usefulness of this study.

Obituary

Isidore Steinberg, 70

Isidore Steinberg, 70, father of the principals of Stonehill Knitting Machine Co., Brook-lyn, died October 5 after an illness of several months. Surviving are his sons, Julius, Herbert and David; 13 grandchildren. and one great grandchild.

KNITTED TRIMMINGS **FASHION COLLARS** KNITTED WITH YOUR YARNS



Volume specialists for knitted collars, cuffs, bottoms, borders, novelties with three finished edges produced on $2\frac{1}{2}$ gauge through 12 gauge V type flat machines.

KNITTED TRIMMING DIVISION

American Knitting Machine Co.

118 Boerum St.

Brooklyn 6, N. Y.

EVergreen 7-1872



Have you considered some important facts about

"ORLON SAYELLE"?

All the loft, bulk and marvelous resiliency in this new yarn is accomplished during the finishing of the knitted garment.

"Orlon Sayelle" is tailor-made for package dyeing.

Phoenix has developed a method of package dyeing this yarn which achieves level shades and provides uniform shrinkage on all colors.

Orlon Sayelle" is DuPont's trademark for its bi-component acrylic fiber.



Phoenix Due Works

DYERS AND BLEACHERS

Serving the Knitted Outerwear Industry

4755 West 150 Street • Cleveland 35, Ohio

Telephone: ORchard 1-0880

Swimwear

R-M-R Dedicates Modern Plant

(Continued from Page 35) ribbon which released a skyward flight of colorfully clustered balloons which had been floating on the pool's surface.

The full extent of the expansion reflected by the move is emphasized by the fact that the firm's former headquarters on Century Boulevard in Los Angeles will be retained on behalf of its subsidiary corporations. Of the original space used when all activities were headquartered together, only the auxiliary buildings required for certain overflow operations will be relinquished. The remaining 70,-000 square feet represented by the main building will be turned over to Cortina Knits, Marina Del Mar, and Western Miss, Rose Marie Reid's fast-growing subsidiaries.

Invitational open house events took place during the week, at which time Rose Marie Reid hosted local trade associates, employees and their families, and neighboring firms and residents.

Sportswear buyers and merchandise executives from representative stores throughout the nationwide Macy group shared an afternoon of brainstorming on the subject of swimwear merchandising this week as guests of Rose Marie Reid.

After a special showing highlights of the 1961 line, a series of statistical slides were presented which shared with the visitors the results of extensive research in the swimwear field which has been a continuing project of the firm's market research department. Under the auspices of Dr. Arthur Highman of the University of Southern California's Marketing Division, a program has been conducted which has revealed significant retail trends, in-store patterns, consumer shopping habits and preferences.

Dr. Highman documented the tremendous growth of the swimwear market over the past decade by means of a chart which illustrated gains substantially ahead of the retail industry as

(Continued on Next Page)

BILL GLOVER -

AUTOMATIC WASHER-EXTRACTOR

SAVES 70% OF TIME AND LABOR CUTS PROCESSING TIME FROM APPROX. 45 TO 15 MINUTES PER LOAD

In charting the many developments which have made wool and other fibers exciting — and have stimulated sales appeal — don't overlook the possibilities that science has made available to you. Enormous advances in processing techniques make these fibers stable in color and sizing. Bill Glover washers and extractors have earned your confidence by the uniform precision controls in pre-shrinking and fiber setting.



WRITE FOR
THE FACTS TODAY!

Send Literature

Bill Glover, Inc.					
5204 Trui					
NAME			TI	TLE	
COMPANY					
ADDRESS .					
CITY			7ONE	STA	TF

☐ Have Representative Call

a whole revealed swimwe stores a shops a as relat "parent" Discu

OCTOE

directed role of t as that ecting fr wear ma up to pa

Chem Produ

Chen
officials
ion of
junction
Mora, to
yarns in
The i
will pro
a variet
jers. Ha

S. A., s Chen whol The Ch TIMES

istorming

vear mer-

guests of

ing high-

present-

e visitors

research

hich has

ect of the

depart-

es of Dr.

Univer-

lifornia's

program

hich has

il trends.

nsumer

erences.

nted the

ne swim-

past de-

rt which

tantially

ustry as

Page)

families. whole. His statistics likewise and resirevealed the relative advances of wimwear sales in department and merfores as compared to specialty m reprehops and of suburban outlets shout the is related to centrally located p shared parent" stores.

Discussions following the presentation of statistics were frected toward pinpointing the ple of the manufacturer as well s that of the retailer in proa series recting future gains for the swimwear market which will measure up to past years.

Yarns And Fibers

Chemstrand Plant To Produce Nylon in Mexico

Chemstrand Overseas, S. A. officials announced the formaion of a new company in conunction with Julio Gonzalez Mora, to produce nylon filament yarns in Mexico.

The new Mexican corporation will produce nylon 66 yarns in a variety of textile and tire deners, Hamilton Hadden, Jr., presdent of Chemstrand Overseas, S. A., stated.

Chemstrand Overseas, S.A. is wholly owned subsidiary of The Chemstrand Corporation, a

major producer in the United States and international chemical fiber markets. Chemstrand also has a wholly owned subsidiary, Chemstrand Limited, in Great Britain, which manufactures Acrilan acrylic fiber, and has substantial interest in acrylic fiber producing companies in Italy and Japan.

Laboratory Reprinting Book On Textile Fibers

DEDHAM, Mass. - A limited reprinting of "Textile Fibers, Yarns, and Fabrics" by Ernest R. Kaswell, (Reinhold Publishing Corp., 1953, 552 pp.)-has been undertaken by Mr. Kaswell's company, Fabric Research Laboratories, Inc., here. The book has been out of print since early 1959.

The hard-covered reprints, which are very close to original printing quality, were prepared by FRL principally as a service to textile colleges who wanted to use the book but could not obtain copies of it. Limited additional copies, however, are available from FRL at cost, \$12 in the continental United States, \$13 (to cover handling and shipping) overseas.

DYED* — BULKED — FINISHED

On Cones Ready to Knit in Both Regular and Heavy Deniers

TURBO ORLON TO YOUR MATCH*



110 W. 34th St., New York 1, N. Y. LOngocre 4-0460

GASTONIA, N. C.

LOS ANGELES, CAL.

PHILA., PA.

MONTREAL, CANADA

- COLLARS
- CUFFS
- BOTTOMS
- SLEEVES
- **ELASTICS**
- **BORDERS**

Satisfaction

Guaranteed

KNITTING MILLS of Phila., Inc. Westmoreland & Collins Street Phila. 34, Pa. GArfield 3-0376

LEBOCEY Circular Knitting Machines

- Model NOPAVIT Rib Jacquard machine for fabrics in plain and double pique, interlock, ripple, eightlock, two and three-color Jacquard patterns; 24 pattern wheels, 24 feeds, 30.7" diameter, built in 14-18 cut.
- High production machine for interlock sweater strips in fancy patterns Model MACBOR with 1:1 border; 32 feeds, 33.1" diameter, built in 16-18 cut.
- Model MACDET Fabric machine for interlock, double pique, eightlock and overplaid patterns; built with 24 feeds, in 16-18 cut.

For information on these and other Lebocey machines call

TRICOMA, INC.

7504 Empire State Bldg., New York 1, N. Y.

......

Wisconsin 7-7466 67

Showroom: 303 Stockholm St., Brooklyn 27, N. Y. GLenmore 6-0205

OCTOI

utsized

acquard

arch ac

THE RIGHT MACHINE FOR THE JOB!



HIGH SPEED - CUP FEED

STYLE 41300X

Top quality seaming at high rates of production is THE BIG ADVANTAGE offered by Union Special's new Style 41300 X sweater machine! Designed and built especially for seaming or closing light and medium weight full-fashioned sweaters, this single thread, cup feed seamer eliminates the tedious, time-consuming handling required with looping machines or flat bed sewing machines. Style 41300 X gives you everything you want for the job: smooth, flat seams, perfect stitch structure, every handling convenience, high speed operation. Let us give you complete information. UNION SPECIAL MACHINE CO., 405 N. Franklin Street, Chicago 10, Illinois.

Union Special

INDUSTRIAL SEWING MACHINES



Style Ideas From Abroad

A three-piece outfit blends a knife pleated skirt with a polo shirt lighter colored trimmed with a pert bow at the neck and dark ribbing on short sleeves. A matching jacket offers mix match possibilities.





This two-piece knit dress tops a knife pleated skirt with a long jacket of the same color. Pockets, collar and buttons are trimmed with contrasting tones in a ribbed material.

well ag ground phasize

TIMES

tfit blends

r colored ert bow at

A matchnix match

LExington 2-6088



The border design on an outsized collar echoes the jacquard stripe rising in an arch across the center of this sweater.



Border patterns march boldly across body and sleeves and reappear in diminished form at the sweater's base.



Daubs of color line up well against a white background and are further emphasized by colored stripes and border.

nit dress led skirt t of the s, collar trimmed

nes in a al.



THE
OUTERWEAR MACHINE
"To pass all men's believing"

COTTON FULLY AUTOMATIC

L FASHION

We claim so much for Bentley's UO/AE! Words can't describe; your eyes must tell you.

We didn't design this full-fashion fully automatic outerwear machine with the word unbelievable in mind. But that's the way it's turned out with the result we can't adequately describe its superlative features. What we're going to have to do then is simply say to you — see it!

See the fastest thing on a knitting room floor. See the exclusive styling features for producing the finest in outerwear fabrics and fibers.

Ask us how this UO/AE can be seen . . . in action.

THE Bentley KNITTING MACHINERY ORGANIZATION, INC.

BLUE CROSS BUILDING • 31 CANAL STREET, PROVIDENCE 2, RHODE ISLAND, U.S.A.
Southern Office: P. O. Box 1887, Liberty Life Building, Charlotte 1, N. C.
In Conada: W. J. WESTAWAY COMPANY, LTD., Hamilton, Ontario

Don't Compromise.. Don't Improvise. . Don't Apologize. . Kuit It On A BENTLEY!

dyed, dried and delivered right all types of wool yarns

HUMBOLDT DYE WORKS

INCORPORATED

854 HUMBOLDT STREET

BROOKLYN 22, NEW YORK

EVERGREEN 9-5350

INTERSTATE

yarn mills, inc.

5725 HUDSON BOULEVARD

NORTH BERGEN, N. J.

N. Y. Phone: LO 4-3707

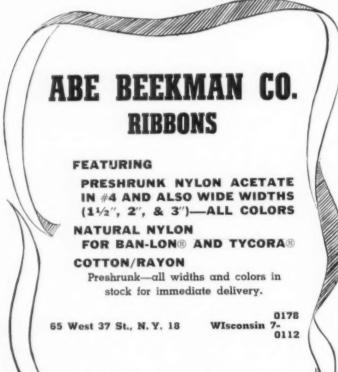
N. J. Phone: UN 5-3116



highest prices paid FOR sweater

EVERY FIBER EVERY GRADE

47 Rodney St., B'klyn 11, N. Y. ULster 2-4488 24 Hour Service Within 100 Miles of N.Y.C. We Do Business Throughout the World



Trade Shows

Knitted Dresses Set Buying Pace At West Coast Hosiery Resort Market

By P. H. MOOR

SAN FRANCISCO, Calif.-Knit dresses and sweaters were strongly endorsed by retail buyers attending the holiday and resort market week staged here September 18-21 at the Sheraton-Palace Hotel under the sponsorship of the West Coast Salesmen's Association.

Distinguishing many of the styles for the holiday season was the artful use of the new colors. Among dresses, flat knits were the decided favorite.

With the show featuring the largest number of lines ever represented at holiday market, buyer registration was slightly above previous highs and order writing was brisk.

Fine gauge angora sweaters with dyed-to-match skirts registered at Darlene Knitwear. In colors, the lilac family, as well as lemon yellow, aqua, sleighbell green, and cinnamon spice are all important. The sweaters re-tail at \$15.98-\$16.98 and the skirts at \$9.98-\$17.98. Darlene representative Charles Gandelman mentioned the interest in the bateau neckline as a fashion accent and indicated that he felt there was a definite trend in that direction.

Favor Bulky

At Zado Goldenberg, Evan Goldenberg reported that buyers were favoring zephyr wool bulkies in novelty stitches. A collared cardigan in this group is made to retail at about \$13.95. sizes 36-40, with gold, beige, and black the leading colors.

Ben Rothenberg of Redwood City Knitting Mills stated that business was "not too bad." The firm produces jacket sweaters in sizes 36-46, \$10.95-\$12.95 retail. Pastels, he indicated, are the most important hues.

Another house specializing in jacket sweaters, Bams Knits, secured extra sales through the introduction of new colors. Dave Solomon, sales manager, reported that, whereas in the past the firm had offered about eight colors, it was now presenting some 14 shades and this was provoking a good deal of buyer interest. Business, he said, was 'very good; ahead of last year by about 15 percent.'

New colors at Bams which are being interpreted in wool and in Orton are gold, teakwood brown, bone beige, willow green. and purple. The latter is a deeper shade than the lilac which has been in the line for many seasons. The firm makes sweaters in the \$9.00-\$17.00 retail range, sizes 36-46.

A particularly popular Bams style highlights a mock cable in a three-ply Orlon yarn. It is used in two collared cardigans, one a waistline bulky at \$11.95, the other a long line style at \$12.95. Gold, purple, green, beige, and white lead the color parade.

Market Good

Lionel Traube, Jr. representing Snyder Brothers Knitting Mills indicated that the market was "pretty good." A two-piece dress with a straight skirt and boxy Chanel jacket was in demand at \$69.95 retail. It featured horizontal ribbon trim, a fairly wide collar, and threequarter set-in sleeves. Black is the leading shade followed by purple, lilac, and royal.

From Lindner Brothers, Mr. Traube said that there was quite a bit of interest in a new type of bulky which the firm is producing on a Jacquard machine. Selling at \$11.95 retail, sizes 36-46, white, black, redwood. and Tahoe blue are the most popular colors. A bulky collared cardigan in a rib stitch was also moving well at \$10.95 retail, sizes 36-46.

Retailers also endorsed knit jackets and tops by Edith made of a pile Acrilan. A popular style in this fiber is a straight line overblouse with a bateau neck and full-length set-in sleeves. The same item is offered with embroidery trim on the pockets or with a black inset down the front.

Mr. Baker was "very gratified" at the amount of business he had written at the market. The firm, he reported, is continuing to find favor for its knit dresses which were added to the line a few months ago. A wool and cotton design with a round open neckline, elbow length sleeves, an elasticized waist, and

(Continued on Next Page)

19.95 dress h hateau er slee both DO Smai portant where

octo

alesma dress W skirt pr \$29.95 Hends he two ccents neckline high or waist, a deeves.

Cotto

dressy, of Dall

Comple leevele neck, a helt. A with a l leeves in entir to the bbric and bla Kimb

entatio

uccess

ena stat

50 to 6 year. the firm 35 in 1 offering ors. Th Scatena tropicar mist go green. ction :

blue for efore. eaturin apestry portant ecurrin Mr. S

ver the is firm it was styles. esting (crochet and 70

seemed

quarter At B Jonatha leading

piece co

necked. sheath : Pace arket

R TIMES

ns which in wool teakwood ow green, ter is a lac which for many es sweat-00 retail

lar Bams cable in It is used ans, one 1.95, the t \$12.95. eige, and rade.

epresent-Knitting e market wo-piece kirt and is in de-It featrim, a d three-Black is

. ers, Mr. vas quite new type n is promachine. il, sizes edwood. he most lky col-

b stitch \$10.95 sed knit th made popular straight bateau set-in n is oftrim on

ck inset y grati-business market. is conits knit d to the A wool

a round length ist, and Page)

graight skirt was in demand at \$19.95 retail. A cotton tweed iress highlighting a cross-over ateau neckline and three-quarersleeves was another leader at 17.95 with sand-dust and blue both popular colors.

Smart knit dresses were imnortant at Nardis of Dallas here Milt Bronson was the alesman. A two-piece wool ress with a fully lined straight skirt provoked good response at 19.95 retail. Subtle heather blends in brown and sand are the two color offerings. Fashion eccents include a convertible neckline which can be buttoned high or worn open, a wide ribbed waist, and three quarter dolman Jeeves.

Cotton knit is given a very dressy, festive look by Nardis of Dallas in a cotton lace style. Completely lined, the dress is a deeveless sheath with a round neck, a low V back and a satin belt. A slim line town dress with a high round neck, dolman seeves and a back zipper give an entirely different personality to the same cotton lace knit In both styles, beige and black are the leading colors. Kimberly Knitwear's repreowed by sentation reported phenomental success with the line. Bill Scatena stated that his business was 50 to 60 percent ahead of last year. At the holiday market, the firm showed the same styles as in the fall show but was offering them in bright new colors. The important shades, Mr. Scatena indicated, are hyacinth, tropicana red, raspberry ice, mist gold, haze green, and jade green. There was, he said, more action at the market on navy blue for early spring than ever before. Two three-piece outfits featuring Chanel jackets and tapestry print blouses were important. Navy and green is a recurring color combination.

Mr. Scatena noted that buyers seemed to prefer the three-piece over the two-piece dress. Where his firm specializes in flat knits. it was showing a few textured styles. One of the most interesting of these is in a hand crochet yarn of 30 percent rayon and 70 percent wool-a onepiece collared dress with three-

quarter sleeves.

At Butte-Knits, a division of Jonathan Logan, Inc., the three leading styles included a portrait necked, double stitched all wool sheath at \$39.98 retail; a twopiece suit with five button trim in a pyramid design and a silk scarf filling in a plunging V neckline (\$45.00): and a scoop necked sheath with a banded waistline. In the last two, beige, light grey, black, and lavender are the most commonly en-dorsed shades. Harold Zwilling was the representative.

Attendance Is Off But Buying Is On At Holiday Show

SYRACUSE, N. Y.—Buying was steady at the holiday showing of the Empire State Juvenile Mart, Inc. despite a ten percent drop in attendance from last

Plum was a favorite in knits followed by gold and olive.

Two of the largest re-order items in the boys' collection of Sargon Knitwear, presented by Moe Drosch, were a roll-collared button down front cardigan and a high V-neck cablestitch pullover in Orlon, available in full range from size 3 to Young University, retailing from \$5.98 to \$9.98. Styling was said to be the important factor here, rather than color. Another popular number called Johnny Zip was a front zippered cardigan with two-button turtle neck in solid colors edged with black, 3 to 20, \$5.98 to \$8.98.

An Acrilan solid color knit shirt for boys, a \$2.98 retailer. was going very well for Donald T. Cohen, showing the Rob Roy line. Leotards and two-piece boucle and Orlon sets for infants and toddlers by Sternberg Knitting Co. was also moving.

Ernest G. Jessel of Janie Originals said lilac, butterball, robin blue and spray green were the most wanted colors in girls' wear. Most interest was in a long-sleeved solid pastel Orlon pullover with Nordic or crossover neck treatment at \$3.98, and a similar but heavier number with wide vertical stripes at \$5.98, in 7-14 and subteen sizes. Also attracting attention was a two-piece set with slacks of leopard corduroy and the top cotton knit with leopard cowl neckline, retailing at \$4.98 for 3-6X and \$5.98 for 7-14.

The "Scardigan" for boys, \$2 in sizes up to 8 and \$3 for 8-16, was a best seller in the Cisco, Inc., line.



SPECIALIZING IN

KNITTED LININGS for SWIM TRUNKS and BATHING SUITS

· All Types of Cotton Mesh

· Novelty Cloth

OSECLAIRE Knitting Mills, Inc.

782 Wythe Ave., Brooklyn, N. Y.

ULster 5-4248



REMEMBER TO CALL RELIABLE

N. R. JACOBS

T. D. ROBSON

Jacobs & Robson Co., Inc.

48 E. 34th Street, New York 16, N. Y. MUrray Hill 6-9160

Dyed & Natural COTTON YARNS SYNTHETICS **NOVELTY YARNS**

Sales Agents For: CROSS COTTON MILLS CO. JORDAN MILLS, INC.

OCTO

THE INDUSTRY'S MARKET PLACE

Advertising rates: \$5.50 per column inch per insertion. Positions Wanted: \$5.00 per column inch per insertion. Minimum space 2 inches. Ads for Monday's paper must be in by preceding Wednesday, 2 P.M. Please enclose payment with your order.

MACHINERY WANTED-FOR SALE

FOR SALE - CASH OR TERMS

2-Jacquard LH, 30", 8 cut, 6 feed, with stripers

1-Ainslie, 60", late type brushing machine

1—Jacquard TAI, 30", 13 cut, 12 feed, 4 color stripers
2—Jacquard LH, 30", 6 cut, 6 feed, with stripers
2—Jacquard TA, 28", 8 cut, 6 feed, with stripers
2—Jacquard TA, 28", 9 cut, 6 feed, with stripers
2—Jacquard TA, 28", 9 cut, 6 feed, with stripers

2-Ordnance Gauge; 1-22", 1-24", OT; 8 feed, 10 cut, 3 color stripers

1-Jacquard TAI, 30", 161/2 cut, 12 feed, with 4 color stripers

7—Leighton transfers, 14 cut, 13", 15", 16", 17" (3), 18", 4 feeds each, some have extra 9, 10 and 101/2 cut cyl. & dials

1-Jacquard LH, 9 cut, 30", 6 feed, with 3 color stripers

1-Kastrinsky Calendar, 54", latest type, with trolley and double steam box front and back

40-Metal cans with rubber wheels, 26" x 18" x 1634"

1-Dubied, 60", 12 cut BARB, practically new

2—Jacquard TJI, 30", 141/4 cut, 12 feed with 4 color stripers

BEN WACHSMAN & CO.

Consultant for Appraisals and Liquidations 671 Bushwick Ave., Brooklyn 21, N. Y. GL 2-4936

OFFER US YOUR SURPLUS **MACHINERY & EQUIPMENT** HIGHEST PRICES PAID

2-141/2 cut, 30", 32 feed Philip Interlock machines

1-151/2 cut, 30", 32 feed Philip Interlock machine

1-19 cut, 30", 32 feed Philip Interlock machine

4—TA, body size 14", 15", 16", 17", 4 feed, 4 color yarn changers, individual drives, 10 cut machines

2-30", 8 cut TA 6 feed, 2 color yarn changer machines

2-30", 9 cut TA 6 feed, 2 color yarn changer machines

1-16 cut TAI, 30", 12 feed complete with stripers

3-13 cut TAI, 12 feed, 30" jog system machine

3-Universal Supramat SF, 10, 12, 14 cut

2-7 cut, 74" double jack Queens machines, selective racks for cables

2-7 cut, 88" double jack Queens machines, selective racks for cables

1-10 cut double head Lamb border machine

1-10 cut single head Lamb border machine

1-Jacquard GW, 28", 10 cut, 24 feed complete with wheels

1-8 cut, 28", 4 feed, 4 color Model TJ, like new

STEINBERG BROTHERS

TEXTILE MACHINERY . AUCTIONEERS . APPRAISERS

174 Scholes Street

Brooklyn 6, N. Y.

EVergreen 7-3715 - 6229 - 6241

FOR SALE

Complete mill-includes complete line of Jacquard machinery (TJ, LH, etc.) Philip machines, bulky machinery, and all auxiliary flat knitting machines. Complete knitwear sewing plant. Metropolitan area.

BOX 429

FULLY EQUIPPED Sweater and Knit Suit Mill

in North Carolina for sale.

BOX 427

BUYS

-Supreme BRW, 4 cut, 16 feed

4-Philip Mach., 32 feed, 30", 14, 141/2, 17 & 18 cut

1-Scott & Williams interlock, 32 feed, 18 cut, 30"

1-Phila. Jacq. TJI, 141/4 cut, 30", 12 feed, Jacq. automats

4-Phila. Jacq. TAI, 834, 13, 15, 161/2 cut, 30", 12 feed, 4 cel. strip.

1-Phila, Jacq. TJ, 10 cut, 30" 12 feed, 4 color strip., automats.

2—Phila. Jacq. TJ, 7 & 8 cut, 28", 6 feed, 4 col. strip. 1—Phila. Jacq. TJ, 16", 7 cut, 4 col. str.

4-Phila. Jacq. LH, 6, 7 & 8 cut, 30" & 28", 6 feed

1-O.G., 32", 36 feed, 8 cut, multi-feed jersey and 1 x 1 rib

2-Phila. Jacq. LA 30", 12 feed, 7 & 10 cut, 3 col. str.

2-Leighton transfers, 61/2 & 10 cut, 32" & 34", 9 feed, 4 col. str.

8-Phila. Jacq. TA, 11" to 20", 4 feed, 6 to 12 cut

1-Phila, Jacq. MLW, 28", 11 cut, 24 feed, automats & wheels

4-Wildman PB2, 15", 17", 18", 28", 8 and 10 cut

2-Queens Model "B", 60", 9 & 12 cut, High & Low needles, Jacks

2-Lamb double head border machines, 7 & 8 cut, with motors

2-Supreme flats, 44", 7 cut, high & low butt

1-Dubied BAN, 56", 12 cut, Jacquards front & back

1-Supreme flat mach., 5 cut, 36"

2-Universal flat mach., 62", 10 & 12 cut

2-Universal Rote-coners, 20 spindle

Joseph Kopelowitz, Inc.

APPRAISALS - LIQUIDATIONS - FINANCING

600 Broadway, Brooklyn 6, N. Y. EVergreen 7-1145 Cable: Josko Inc., New York

508

SF

QUE gau cab

620

2-2-1-2-

uard

ma-

ines.

rea.

3 cut

trip.

str.

back

145

WANTED

Grosser-21/2 gauge hand machines, 60 to 70 needles. BOX 400D

WANTED

21 Gauge full fashioned machines. State serial number, make and price.

BOX 423

WANT TO BUY

LH, 6 or 7 cut Jacquard knitting machines. Must be in perfect condition.

Write BOX 410A or Call HYacinth 7-2471 (Brooklyn, N.Y.)

FOR SALE

Queens Tandem head Links and Links machines, 9 gauge, 48" beds. These machines will make the true cable (no needles removed) and also Intarsia work.

BERGEN KNITTING MILLS

UNion 7-1068 620 - 38 St., Union City, N. J.

FOR SALE

- 2-Scott & Williams MFRC, 30", 30 feed, 18 cut
- 2-Alemannia F8, 71", 4 cut
- 2-Jacquard LH6, 30", 7 cut
- 2-Jacquard TAI, 30", 12 feed, 131/2 cut
- 1-Jacquard TAI, 30", 12 feed, 12 cut
- 2-Jacquard TJI, 30", 141/4 cut, now working Jacquard, 4 color stripers on all 12 feeds
- 2-Brinton RMP, 24", 64 feed, 18 cut
- 1-Brinton RMP, 24", 64 feed, 20 cut
- 1-Supreme MJ, 20", 64 feed, 20 cut
- 1-Brinton PR-19, 24", 16 feed, 10 cut

SPEIZMAN KNITTING MACHINE CORP.

508 W. 5th ST., CHARLOTTE, N. C. 350 5th AVE., NEW YORK 1, N. Y. Phone PE 6-0451 Phone ED 4-5546

WANTED

TJI 14 and 16 cut. State service number and price. **BOX 420G**

WANTED

TJI 1414 cut machines, set up on Jacquard, in running condition. Give serial number and price in first letter.

BOX 420J

FOR SALE

3-MLW machines, 26", 960 needles, 24 feed, 4 color stripers on each feed. Can make body lengths, yard goods, Jacquard or wheel designs. In perfect running con-dition. Can be seen in operation.

BOX 420K

YARNS WANTED, FOR SALE

FOR SALE **ELASTIC YARN FOR KNITTING**

· All Sizes and Colors

EDFORD YARN CO. 79 Clifton Place Brooklyn, N. Y. MAin 2-1340

WANTED FOR CASH Worsted · Zephyr · Synthetics Cotton

We always carry a large stock of yarns, dyed on cones for immediate use.

CALL EV 8-8277 BEN BALIF

686 Flushing Ave. Brooklyn 6, N. Y. CENTURY YARN CO.

WE BUY AND SELL

Worsteds - Synthetics - Blends

AT BEST PRICES!

EDFORD YARN CO. MAin 2-1340

Brooklyn, N. Y. 79 Clifton Place

WILSON YARN CORP.

141 Wilson Ave., Brooklyn 37, N.Y. GI WE PAY We Buy & Sell H. BERMAN GL 6-9686 We carry in stock TOP PRICES WORSTED & SYNTHETIC all colors and all sizes for the SURPLUS YARN YARNS

NEW YARN OFFERINGS!

AT ATTRACTIVE PRICES

ATRACTIVE

800 lbs.—1/16, natural, H. B. Orlon, cones

2500 lbs.—2/11½, natural, Orlon Sayelle, cones
600 lbs.—1/18, natural, elaxed Orlon, cones
550 lbs.—1/18, natural, 80% Orlon, 20% wool, cones
600 lbs.—1/13, black, Orlon, cenes
600 lbs.—1/30, natural, 70lon, cones
600 lbs.—5/4 run, natural, Orlon, cones
550 lbs.—3 run, autural, 90% wool, 20% nylon, cones
600 lbs.—3 run, oive green, 100% wool, 20% nylon, cones
600 lbs.—3 run, ive green, 100% wool, 20% nylon, cones
3500 lbs.—2/4 run, 1t beige, 75% wool, 25% Orlon, cones
4000 lbs.—1/20, worsted yarn, assorted colors, cones
1000 lbs.—1/20, worsted yarn, autural, perforated tubes, 62s quality
500 lbs.—1/12, natural, wool & mohair, cones
1500 lbs.—1/12, natural, 88% wool, 12% fur, cones

SAM SASKEN

CH 4-8733

1441 Broadway, New York 18, N. Y.

POSITIONS WANTED

OFFICE MANAGER-ACCOUNTANT

7 years full control of office in knitwear. Heavy experience in multi-corporate sales and manufacturing. Factory payrolls, credits, collections, financing and factoring.

BOX 420

RASCHEL SUPERINTENDENT AVAILABLE

Fully qualified mechanic, specialized on multi-bar lace, analysis, layout, drafting.

BOX 422

YARN SALESMAN AVAILABLE

for representation in Philadelphia, Penna., South Jersey areas. Strong following. **BOX 426**

PRODUCTION FOREMAN AVAILABLE

Over 20 years experience in men's, boys', and ladies' sweaters and sportswear, pattern making and styling. Capable of taking complete charge after knitting to finished product. Willing to relocate.

BOX 420A

HELP WANTED

CIRCULAR KNITTER MECHANIC

Experienced on Jacquard machinery and flats. Excellent opportunity with a secure future. Address all information to:

THE H. E. FRISCH KNITTING MILLS CO.

1991 E. 66th St., Cleveland, Ohio

CIRCULAR KNIT TECHNOLOGIST

Continued growth has developed the need for a well qualified man to carry out major fabric development programs in the use of manmade fibers in circular knit underwear and outerwear.

The Celanese Fibers Company produces a family of fabrics having broad potential for use in the circular knitting industry. The Company has recently expanded its knit fabrics development facilities located in Charlotte, N. C., a progressive modern city of 200,000. These facilities include complete yarn and spinning equipment, more than a dozen different types of knitting machinery, and the necessary dyeing and finishing equipment to support major development work.

The applicant should be of professional status, with a technical education or background in knitting technology and 5 to 10 years experience. He should be capable of making design layouts and administering a knit fabric development program.

We offer exceptional advancement opportunity, a full benefit program and salary commensurate with experience. Send you resume in confidence to G. J. Kiefer, Section 122

CELANESE **FIBERS COMPANY**

A Division of Celanese Corp. of America P. O. Box #1414, Charlotte 1, N. C.

MECHANIC WANTED

Fully experienced on LH, TJ and TA circular machines for large sweater mill located in New Jersey. 15 minutes from 42nd Street.

BOX 420M

MECHANIC WANTED

First class, experienced on L.H. and O.G. as well as Stoll flat machines. Excellent opportunity for responsible man who wants to settle permanently. Replies strictly confidential.

BOX 416

MECHANIC WANTED

on Supreme knitting machines. Must be expert on loop cloth, Also, 2 and 3 position pattern wheels. Able to originate and copy fabrics. All answers strictly confidential.

EMPIRE STATE MILLS, INC.

2261 - 45th St., Astoria, L. I. RA 6-6333

SALESMAN WANTED-BEACHWEAR

New line, popular priced ladies' swim suits ready to go now, beautiful styles and fabrics, excellent construction, terrific values, liberal commission. May also carry non-conflicting line. Write for appointment in Manhattan.

McCLIFF SWIMWEAR,INC. 258 Washington St., Newark 2, N.J.

EXECUTIVE POSITION

an outstanding opportunity for man or woman with good working knowledge of all types of knitting processes—cotton, wools, synthetics, blends. Give full details of background experience, references and salary requirements in first letter. Position will require residence in Portland, Oregon. Write Mr. Kaplan.

> WHITE STAG MFG. CO. 67 W. Burnside, Portland 9, Oregon

BUSINESS

540

NTRACT

Lea

achines

minutes

well

for

ntly.

cloth.

ginate

al.

rking

vools,

will

an.

SALESMAN - WESTERN TERRITORY

Leading knitwear manufacturer has opening for experienced salesman calling on wholesale and discount chains,

BOX 420C

INTRACTORS WANTED, CONTRACT WORK WANTED

CONTRACTOR

with large Links & Links plant is open for better grade bootee sets, infants to 6x. Own winding and packing facilities.

BOX 415

POPULAR PRICED LADIES' SWEATER MANUFACTURER

Can furnish immediate orders on garnetted Links and Links bulkies. Call PEnnsylvania 6-6395 or Write BOX 420D

CONTRACT WORK WANTED

on 4 gauge flat power and hand machines. Presently available for 100-200 dozen weekly.

BOX 421

CONTRACT WORK WANTED

on 4 cut latest model Universal. Knitting only. Good workmanship.

BOX 425

WANTED

Knitting only on Raschel machines. We are experienced on Raschel knitting for sweaters.

BOX 428

CONTRACT WORK WANTED

on 4 and 5 cut flat machines.

BOX 420F

USINESS OPPORTUNITIES

PARTNER WANTED

Plant, consisting of fine gauge circular machines, is interested in an active partner with capital for bulky machines.

B & G KNITTING MILLS, INC.

540 Bushwick Ave., Brooklyn 6, N. Y.

Hickory 3-6261

PARTNER WANTED

Woolen Spinning Plant.

Profitable business.

\$50,000 cash for ½ share required. Only principals able to show credit standing need apply, no intermediates, lawyers, brokers, etc.

Partnership can be active or inactive. The plant is fully busy, has a good reputation, excellent, prompt paying customers, with good future business anticipated. Expansion possible if wanted. No technical knowledge needed, the plant is well managed with steady, young management. Located in Southern New England.

BOX 400B

BUSINESS OPPORTUNITY

Canadian knitting mill seeks American designer for knitted headwear, knitted gloves and mittens. Free-Lance basis.

Styles and patterns submitted will be confirmed to Canadian market. All replies shall be treated confidentially.

BOX 410D

REPRESENTATIVES WANTED, LINES WANTED

LEADING SELLING AGENCY

Well-known, nationally for over 30 years—open to represent reliable mill — sales volume over \$1,000,000 — manufacturing ladies' sweaters.

BOX 410L

SELLING AGENT WANTED

to represent leading manufacturer on popular priced ladies' sweaters. Must be well established for volume selling.

All replies will be held confidential.

BOX 420H

CLOSEOUTS

MEN'S AND WOMEN'S QUALITY SWEATERS CLOSEOUTS WANTED FOR CASH

Our discount store sells to isolated areas enabling us to take top cash prices and prevent conflict with Main Street stores. No quantities too small or too large. Upon receipt of your postcard letting us know what you have to offer, we will be pleased to visit you with cash.

BOX 420B

CLOSE-OUTS WANTED

CASH PAID for surplus stocks of Sweaters and Bathing Suits.

BERNETTE TEXTILE COMPANY 101 W. 31 St., New York City

BRyant 9-5526-7

NEED CASH FAST?

YARN CLOSEOUTS WANTED

Ban-Lon and Orlon Acrylic Small or Large Lats

RIDGEWOOD YARN

EV. 2-8002

KNIT FABRICS, CLOSEOUTS WANTED

Cottons, Jerseys, Nylon Fleece, Lastex, Novelties, Metallics. Woven Piece Goods and Remnants. We pay cash.

CHARMKNIT CORP., 82 Franklin St., N.Y.C. WA 5-6828

CLOSEOUTS WANTED

Cash paid for surplus stock of sweaters. Call Mel.

MArket 2-2473 Pllgrim 8-4035 in New Jersey. Or write to:

BOX 420L

SERVICES, SUPPLIES FOR SALE

SAVE MONEY ON POLYETHYLENE BAGS

91/2 x 13—G. 001 @ \$5.00 per M—G. 00075 @ \$4.25 per M 11 x 14—G. 001 @ \$6.00 per M—G. 00075 @ \$4.90 per M

LUCKY POLYETHYLENE MFG. CO.

Evergreen 8-5403 454 Berry St., Brooklyn 11, N. Y.

SUBSCRIPTION ORDER FORM

KNITTED OUTERWEAR TIMES

386 Park Ave. South, New York 16, N. Y.

Please enter our subscription to the Knitted Outerwear Times for one year. Check is enclosed. Domestic -\$10.00 per year; Canada-Foreign — \$15.00 per year.

Address.......

RATES: one insertion—35 cents per word. Words set completely in capitals
—40 cents per word. Box numbers count as two words. Minimum cost af
advertisement—55.50. Minimum cost of Positions Wanted advertisement
—55.00. Trade Wants for Monday's paper must be in by preceding Wednesday. 2 P.M. Please enclose payment with your order.

Knitter-mechanic wanted for Ordnance Gauge machines. New Jersey
—metropolitan area. Must be willing to work continuously on night shift. Box 420N.

Mechanic wanted on 4 cut Supreme machines. Full or part time. CAnal 6-7673.

LEASE—SALE. LOFTS—BUILD-INGS. ALL SIZES—ALL LOCA-TIONS. MITON WOLF & CO., 744 BROAD STREET, NEWARK, NEW JERSEY. MI. 3-8844.

A knitter mechanic is interested receiving instructions on LH a Supreme 3 position wheels. Will p well on an hourly basis. G.P. Box 364, New York 1, N. Y.

Available: Knitter-mechanic on Fa V and Flat Links machines. In 424.

Knitting mill for sale. 17 cut, 3/ Philip machine and complete finish ing plant. Reasonable. Cash, term Rent. Box 420E.

Perfec

. . th Lift and

There edgin

less co: bined a on bul

quarts · Push of cha: of cha:

- wh

PLANT MANAGER WANTED

Leading sweater mill requires services of a mature and versatile manager. Position requires independent judgment. Salary commensurate with qualifications.

BOX 420N

All replies held in strict confidence.

FOR BEST RESULTS TRY A "MARKET PLACE" AD interested on LH a

asis. G.P.

anic on Fl chines. R

17 cut, 30 nplete finis Cash, term

ED

of

on

iry

D

They Solve Problems for YOU!

This is an EXCLUSIVE NEW MODEL

built especially

KNITWEAR

U. S. MODEL 99-KS



for every felling operation on knitted outerwear . . . around necks; around arm holes; hems bottoms all with an elasticized stitch that stretches.

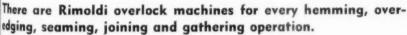
U. S. blind stitch machines are Unquestionably Superior

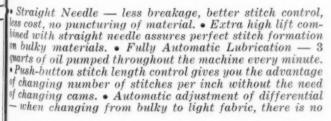
Enthusiastically acclaimed by Knitwear Manufacturers

Rumarla class 27.7

Perfected Especially for EXTREMELY BULKY KNITS

.. this machine is equipped with Exceptionally High lift and Increased Differential Feed



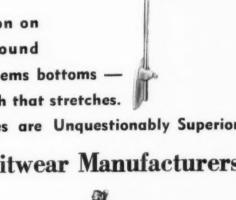


need to change cams. (Differential can be adjusted even when machine is in operation by knee control-available on request.).

Quickest threading - completely from front of the machine. . Constant Stitch Control - due to micromatic adjustment of tension discs. • Works perfectly on heaviest or lightest Knits. . Finest Workmanship combined with finest materials assure years of trouble-free performance.

Sole Distributors in the United States and Canada

231 West 29th Street







WOOL

is still the knitwear industry's "FIRST LOVE" fiber...and BANNER is BEST for dyeing all types of Wool and Specialty Fiber Yarns!

- · Acknowledged "Know-How"
- 1,000 lb. Kettle Lots
- Very Large Capacity
- Winding, if desired, in our own plant

GREAT NAMES IN KNITTED OUTERWEAR PROCESSING

BANNER YARN DYEING CORPORATION BANNERIZED CORP. OF AMERICA BANNERLON PROCESSING CORPORATION BANNER PIECE DYEING CO. INC.

488 Morgan Ave., Brooklyn 22, N. Y. • EVergreen 8-0100

